

Data File : VU035037.D
Acq On : 10 Oct 2019 10:17
Operator : JC/SP
Sample : MDL02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Manual Integrations
APPROVED

MMDadoda
10/11/2019 8:46:54 AM

Quant Time: Oct 11 02:58:57 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Oct 11 02:39:08 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	171706	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	173193	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	74195	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	57225	5.64	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	112.80%
7) Chloroethane-d5	1.68	69	51639	5.45	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	109.00%
11) 1,1-Dichloroethene-d2	2.26	63	85912	4.01	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	80.20%
20) 2-Butanone-d5	4.19	46	172687	57.77	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	115.54%
24) Chloroform-d	4.62	84	102396	5.40	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.00%
26) 1,2-Dichloroethane-d4	5.29	65	60355	5.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.20%
32) Benzene-d6	5.32	84	212710	5.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.80%
36) 1,2-Dichloropropane-d6	6.31	67	70912	5.22	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.40%
41) Toluene-d8	7.55	98	190058	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.80%
43) trans-1,3-Dichloropropene-	7.84	79	21900	4.48	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.60%
46) 2-Hexanone-d5	8.30	63	122323	52.64	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.28%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	59515	5.20	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.00%
64) 1,2-Dichlorobenzene-d4	11.84	152	67599	5.40	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	108.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	5136	0.327 ug/L	96
3) Chloromethane	1.32	50	6395	0.372 ug/L	100
5) Vinyl chloride	1.40	62	6324	0.374 ug/L	89
6) Bromomethane	1.62	94	3770	0.401 ug/L	95
8) Chloroethane	1.69	64	3411	0.336 ug/L	94
9) Trichlorofluoromethane	1.88	101	6996	0.342 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	4562	0.389 ug/L	91
12) 1,1-Dichloroethene	2.27	96	4194	0.380 ug/L #	1
13) Acetone	2.34	43	10833	4.425 ug/L	91
14) Carbon disulfide	2.47	76	12034	0.328 ug/L #	92
15) Methyl Acetate	2.61	43	2812	0.432 ug/L #	81
16) Methylene chloride	2.69	84	6368	0.466 ug/L	87
17) Methyl tert-butyl Ether	2.99	73	10910	0.363 ug/L	99
18) trans-1,2-Dichloroethene	2.96	96	4360	0.369 ug/L	99
19) 1,1-Dichloroethane	3.42	63	8273	0.352 ug/L	93
21) 2-Butanone	4.29	43	11133	3.193 ug/L	89
22) cis-1,2-Dichloroethene	4.20	96	4333	0.329 ug/L	89

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.53	128	1813	0.328	ug/L	97
25) Chloroform	4.65	83	16136	0.612	ug/L	99
27) 1,2-Dichloroethane	5.39	62	5790	0.376	ug/L	99
29) 1,1,1-Trichloroethane	4.90	97	6515	0.335	ug/L	99
30) Cyclohexane	4.97	56	6669	0.312	ug/L	98
31) Carbon tetrachloride	5.11	117	5305	0.315	ug/L	96
33) Benzene	5.37	78	17120	0.328	ug/L	100
34) Trichloroethene	6.17	95	4870	0.362	ug/L	96
35) Methylcyclohexane	6.40	83	6961	0.319	ug/L	96
37) 1,2-Dichloropropane	6.41	63	5523	0.392	ug/L	100
38) Bromodichloromethane	6.74	83	5444	0.330	ug/L	97
39) cis-1,3-Dichloropropene	7.26	75	5669	0.297	ug/L	99
40) 4-Methyl-2-pentanone	7.45	43	29034	3.278	ug/L	93
42) Toluene	7.62	91	18307	0.336	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	4596m	0.311	ug/L	
45) 1,1,2-Trichloroethane	8.05	97	3308	0.354	ug/L	94
47) Tetrachloroethene	8.21	164	3727	0.342	ug/L	79
48) 2-Hexanone	8.35	43	24474	4.030	ug/L #	93
49) Dibromochloromethane	8.46	129	3231	0.299	ug/L	97
50) 1,2-Dibromoethane	8.58	107	2858	0.320	ug/L #	98
51) Chlorobenzene	9.10	112	11902	0.337	ug/L	96
52) Ethylbenzene	9.23	91	19115	0.318	ug/L	93
53) m,p-Xylene	9.36	106	6768	0.305	ug/L	100
54) o-Xylene	9.76	106	6174	0.284	ug/L	94
55) Styrene	9.78	104	9858	0.280	ug/L	100
56) Isopropylbenzene	10.15	105	18038	0.312	ug/L	97
58) 1,1,2,2-Tetrachloroethane	10.44	83	4827	0.380	ug/L	100
59) 1,2,3-Trichloropropane	10.48	75	3124	0.343	ug/L	96
61) Bromoform	9.95	173	1693	0.333	ug/L #	91
62) 1,3-Dichlorobenzene	11.40	146	7827	0.342	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	8519	0.369	ug/L	92
65) 1,2-Dichlorobenzene	11.86	146	8617	0.391	ug/L	98
67) 1,3,5-Trichlorobenzene	12.87	180	4713	0.305	ug/L	95
68) 1,2,4-trichlorobenzene	13.49	180	2253m	0.195	ug/L	
69) Naphthalene	13.74	128	3971m	0.221	ug/L	
70) 1,2,3-Trichlorobenzene	13.98	180	2659	0.237	ug/L #	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

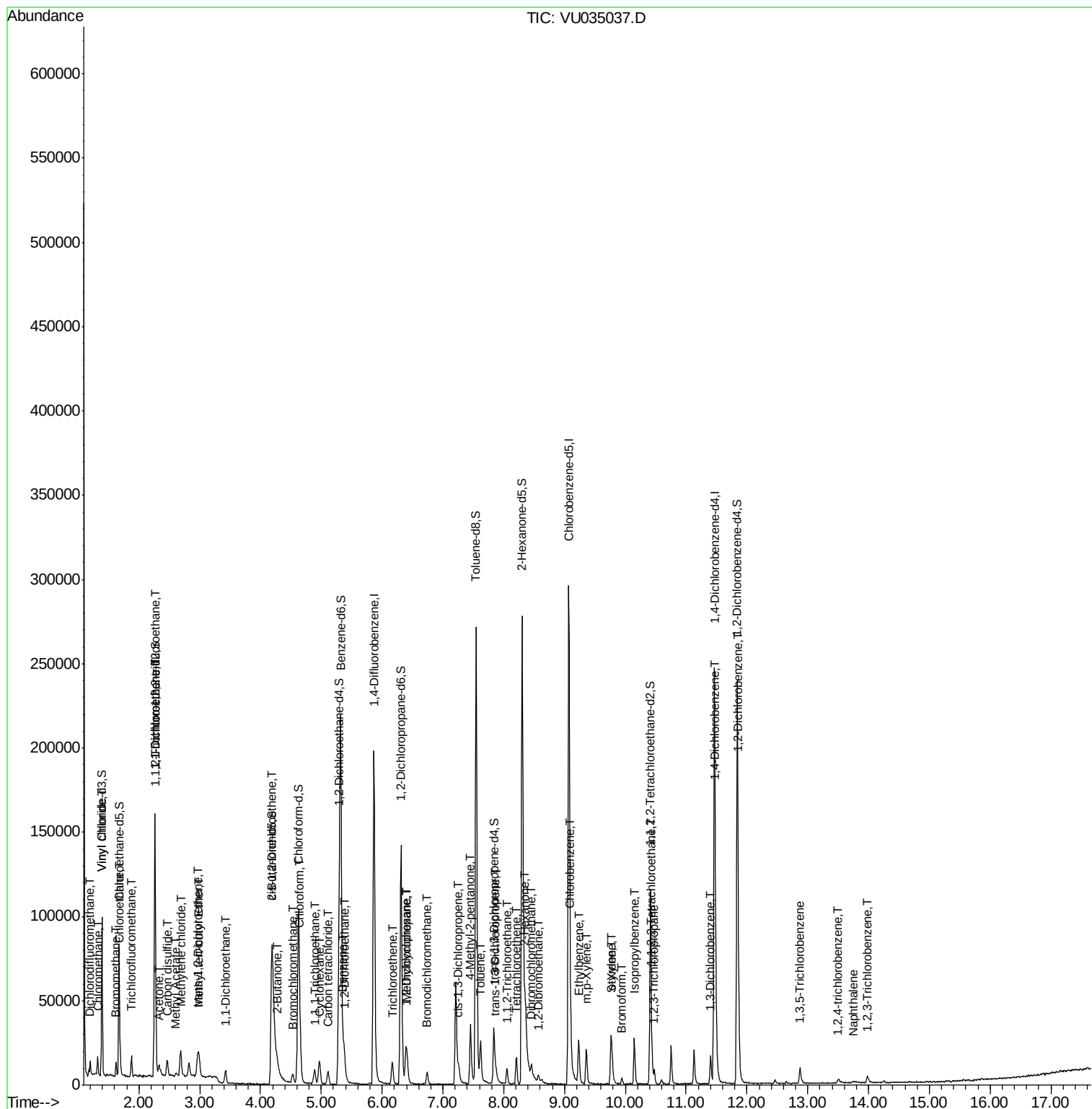
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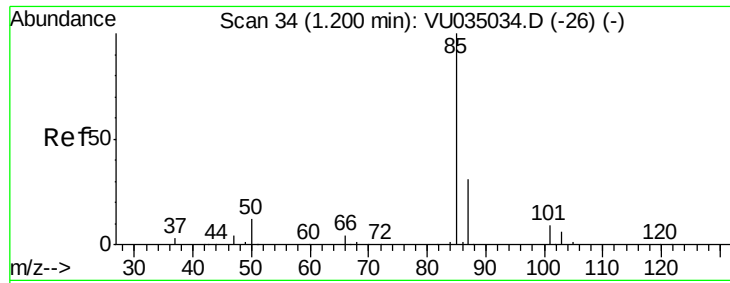
Instrument :
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#2

Dichlorodifluoromethane

Concen: 0.327 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tgt Ion: 85 Resp: 5136

Ion Ratio Lower Upper

85 100

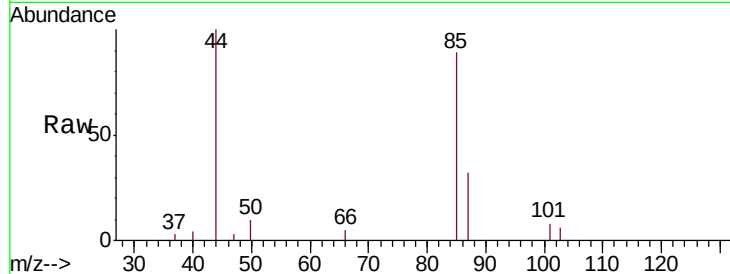
87 35.2 26.3 39.5

Manual Integrations

APPROVED

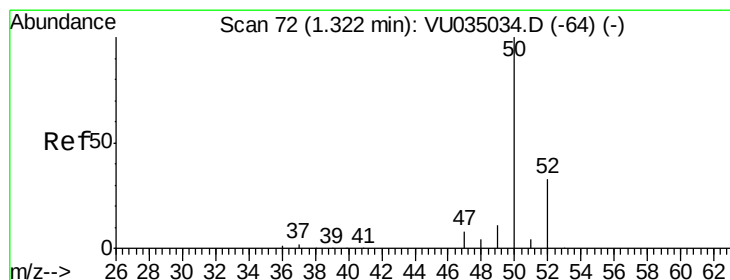
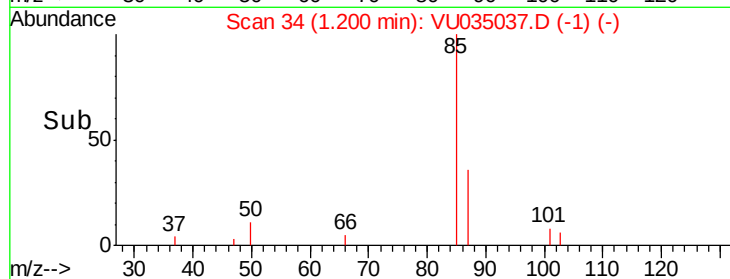
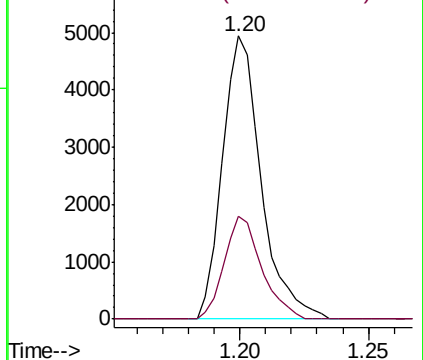
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Abundance Ion 85.00 (84.70 to 85.70): VU035037.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU035037.D (-1) (-)



#3

Chloromethane

Concen: 0.372 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU035037.D

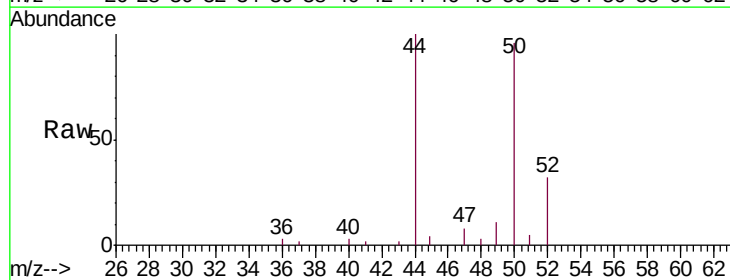
Acq: 10 Oct 2019 10:17

Tgt Ion: 50 Resp: 6395

Ion Ratio Lower Upper

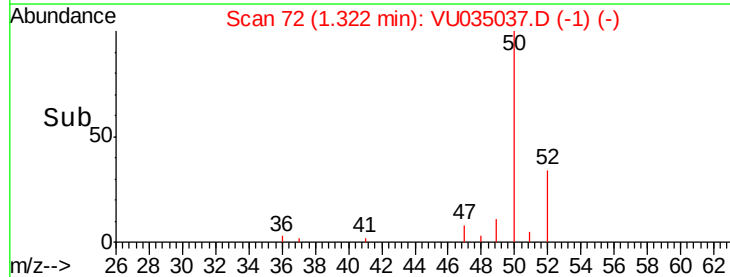
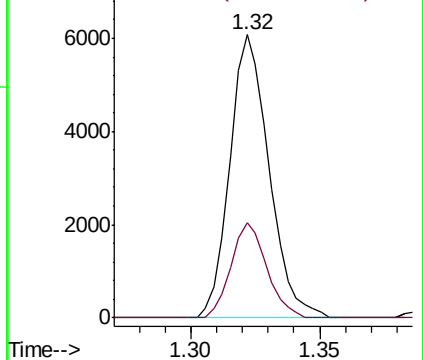
50 100

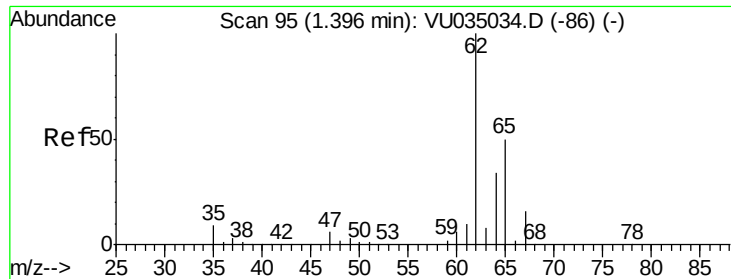
52 33.5 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU035037.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU035037.D (-1) (-)





#5

Vinyl chloride

Concen: 0.374 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tgt Ion: 62 Resp: 6324

Ion Ratio Lower Upper

62 100

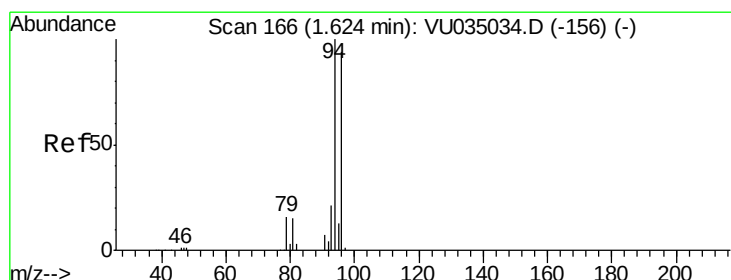
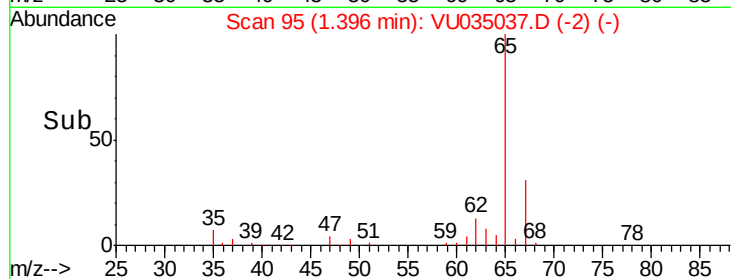
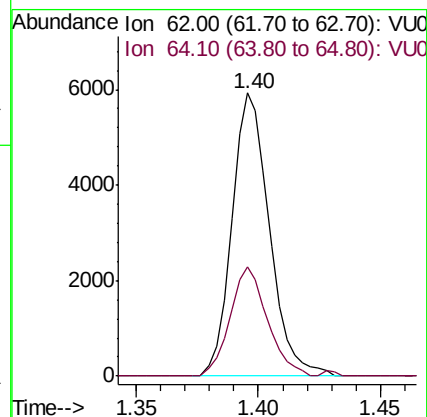
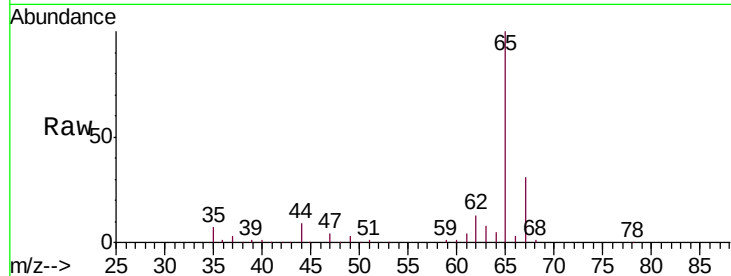
64 38.7 22.8 42.4

Manual Integrations

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#6

Bromomethane

Concen: 0.401 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU035037.D

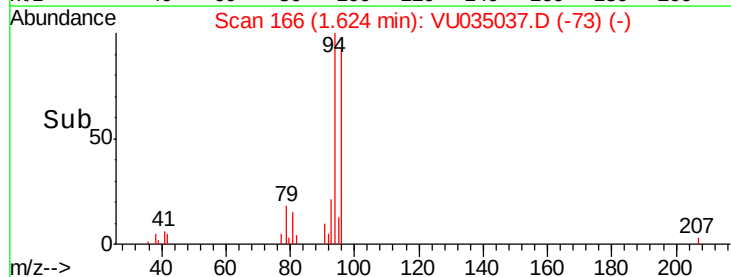
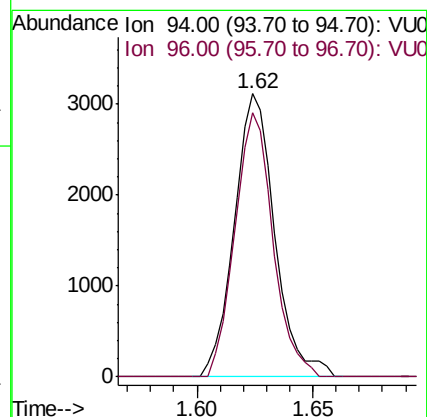
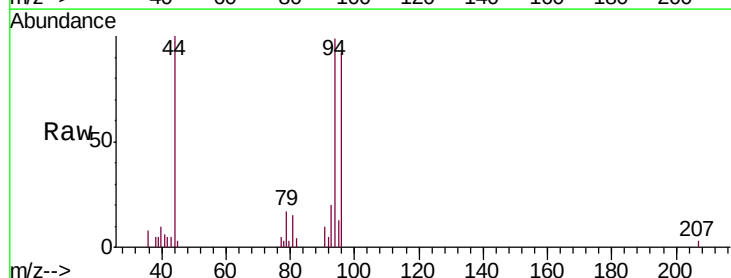
Acq: 10 Oct 2019 10:17

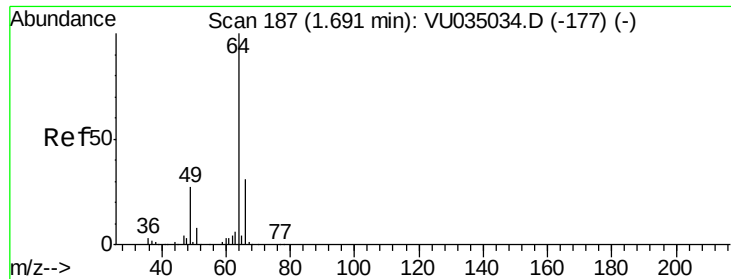
Tgt Ion: 94 Resp: 3770

Ion Ratio Lower Upper

94 100

96 93.4 62.4 116.0





#8

Chloroethane

Concen: 0.336 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tgt Ion: 64 Resp: 3411

Ion Ratio Lower Upper

64 100

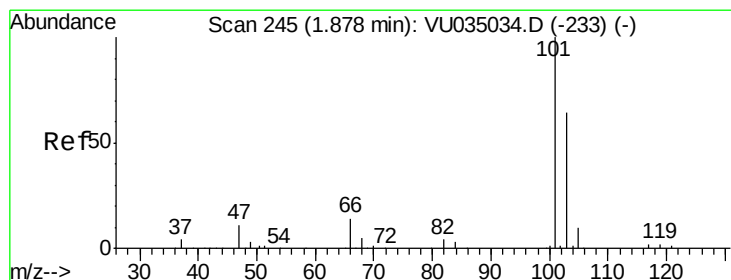
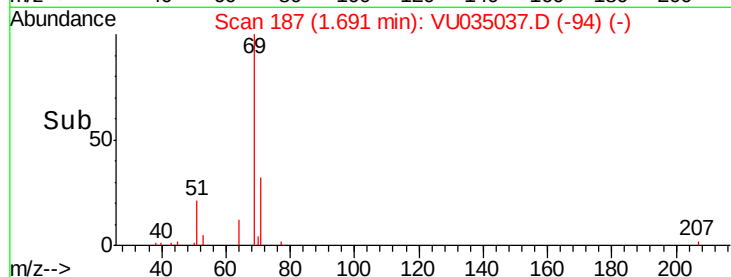
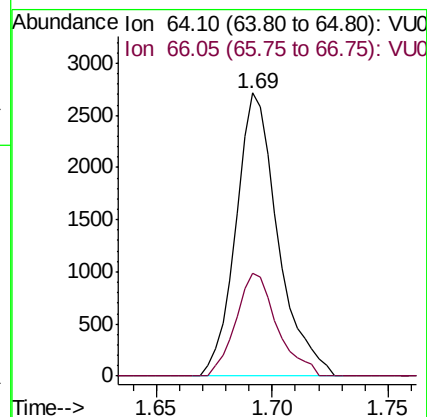
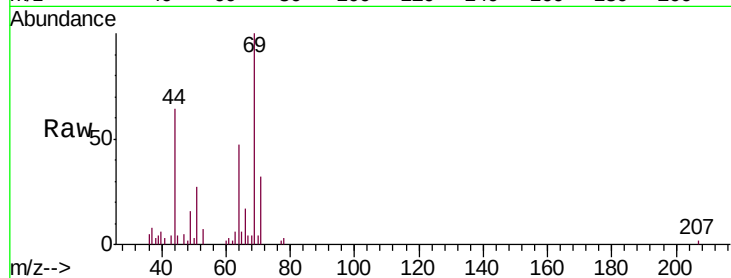
66 36.6 23.2 43.2

Manual Integrations

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10/11/2019 8:46:54 AM



#9

Trichlorofluoromethane

Concen: 0.342 ug/L

RT: 1.88 min Scan# 245

Delta R.T. 0.00 min

Lab File: VU035037.D

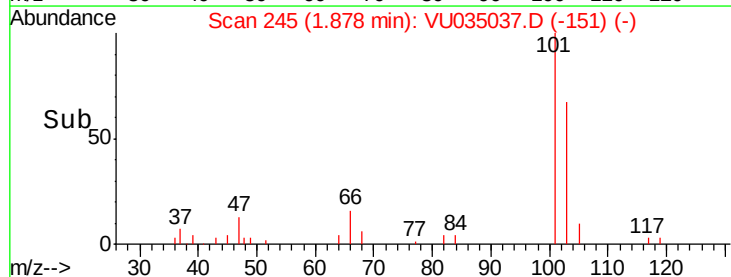
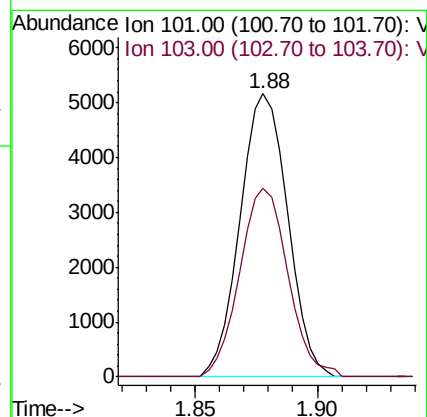
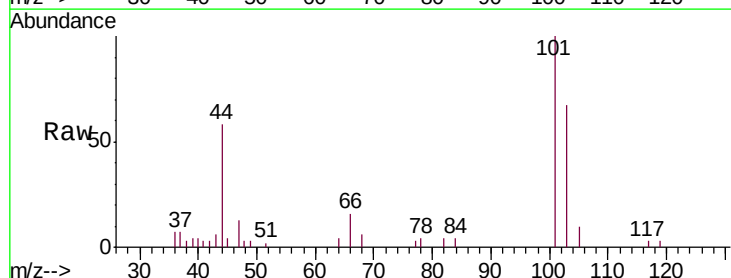
Acq: 10 Oct 2019 10:17

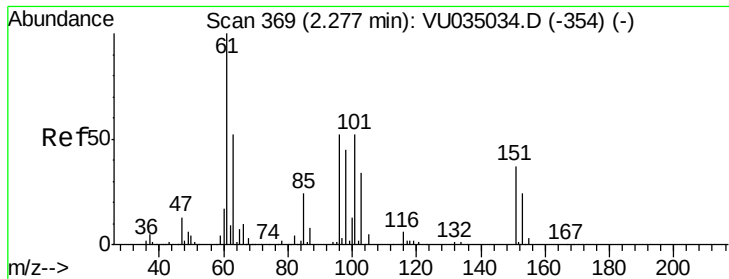
Tgt Ion: 101 Resp: 6996

Ion Ratio Lower Upper

101 100

103 67.5 52.2 78.4





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.389 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Instrument :

MSVOA_U

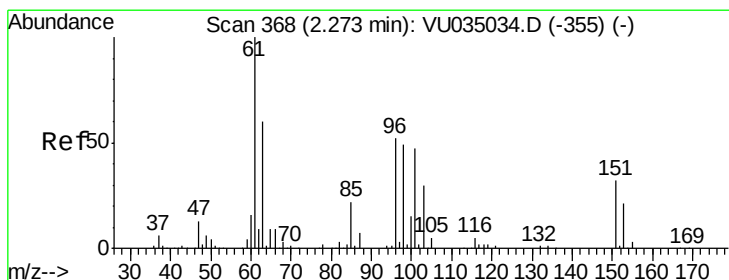
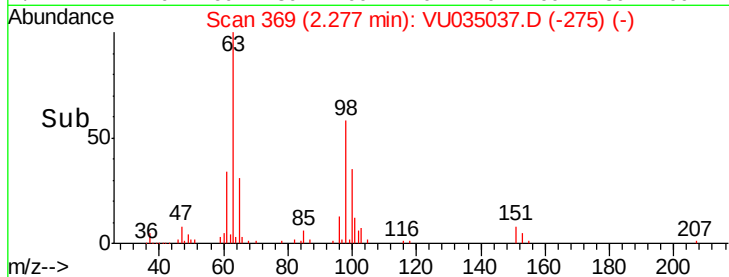
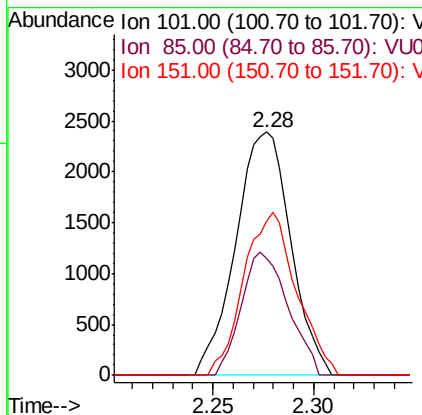
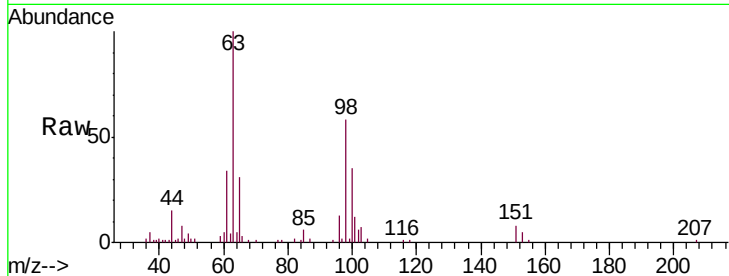
ClientSampled :

MDL02

Tgt Ion:	101	Resp:	4562
Ion Ratio	Lower	Upper	
101	100		
85	43.1	37.4	56.0
151	63.9	58.6	87.8

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#12

1,1-Dichloroethene

Concen: 0.380 ug/L

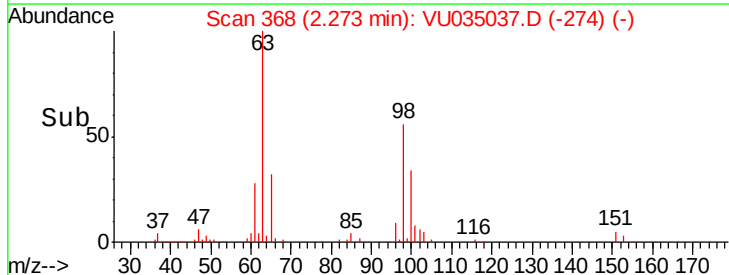
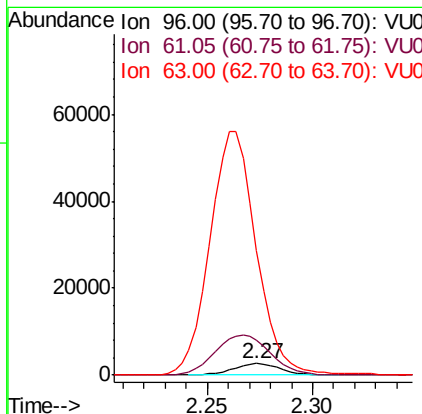
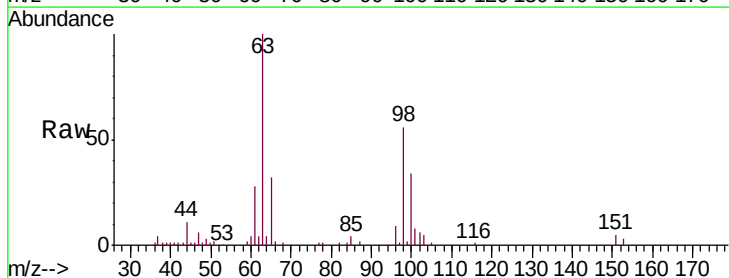
RT: 2.27 min Scan# 368

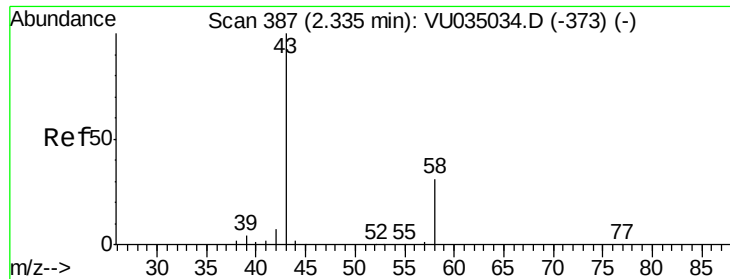
Delta R.T. 0.00 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Tgt Ion:	96	Resp:	4194
Ion Ratio	Lower	Upper	
96	100		
61	298.3	129.3	240.1#
63	1077.3	108.9	202.3#





#13

Acetone

Concen: 4.425 ug/L

RT: 2.34 min Scan# 388

Delta R.T. 0.01 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tgt Ion: 43 Resp: 10833

Ion Ratio Lower Upper

43 100

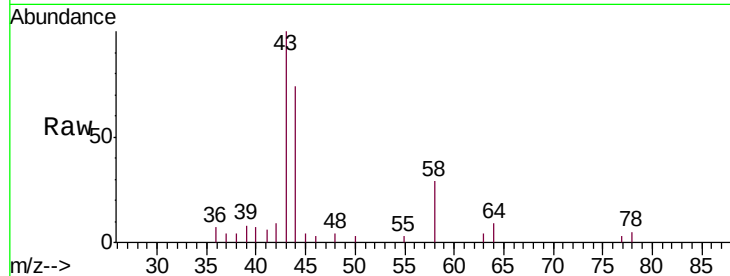
58 28.1 0.0 66.6

Manual Integrations

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10/11/2019 8:46:54 AM



Abundance Ion 43.05 (42.75 to 43.75): VU035034.D (-373) (-)

Ion 58.05 (57.75 to 58.75): VU035034.D (-373) (-)

2.34

4000

3000

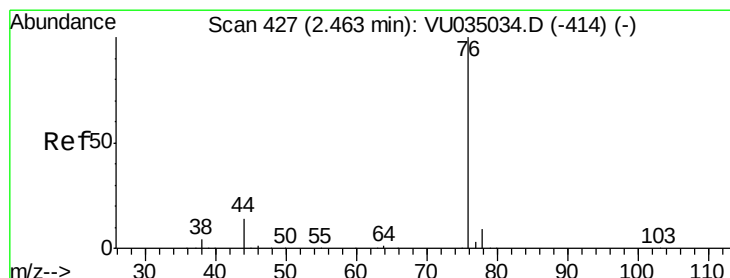
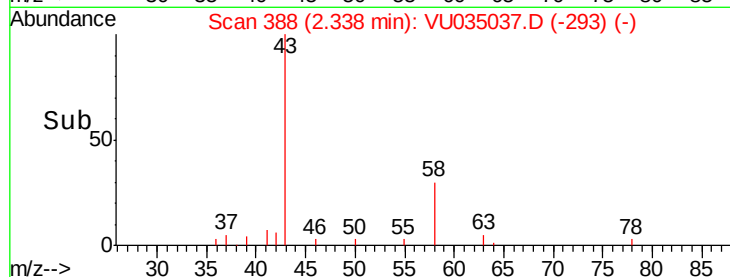
2000

1000

0

Time-->

2.30 2.40



#14

Carbon disulfide

Concen: 0.328 ug/L

RT: 2.47 min Scan# 428

Delta R.T. 0.00 min

Lab File: VU035037.D

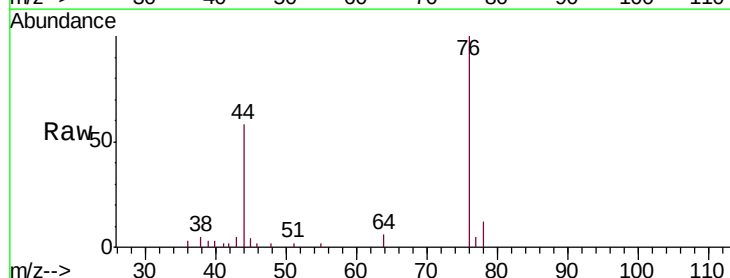
Acq: 10 Oct 2019 10:17

Tgt Ion: 76 Resp: 12034

Ion Ratio Lower Upper

76 100

78 11.7 7.1 10.7#



Abundance Ion 76.05 (75.75 to 76.75): VU035034.D (-414) (-)

Ion 78.00 (77.70 to 78.70): VU035034.D (-414) (-)

2.47

8000

6000

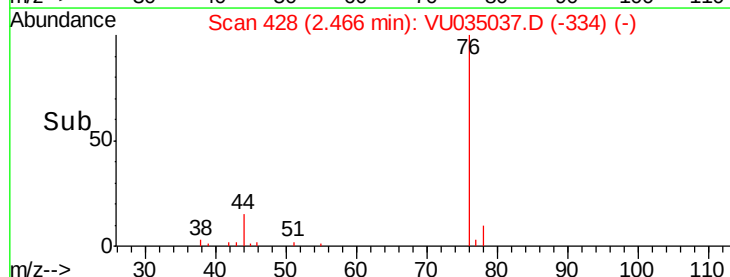
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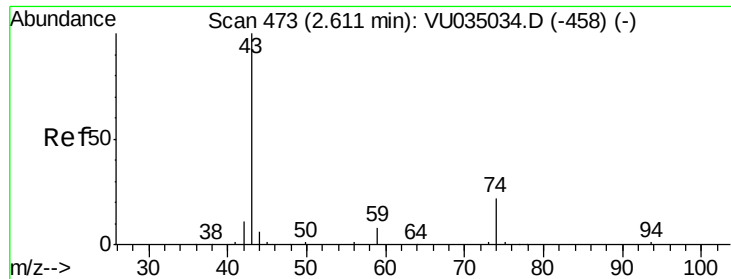
2000

0

Time-->

2.40 2.45 2.50





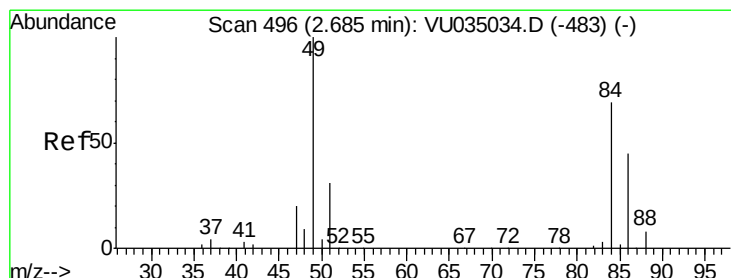
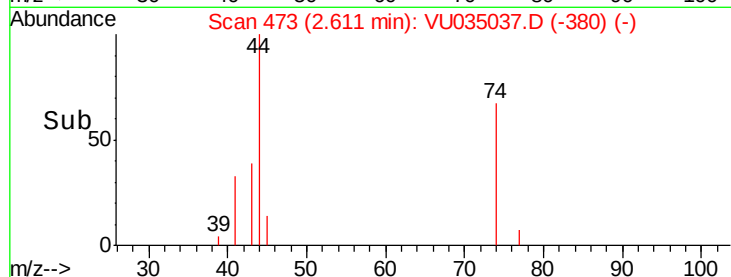
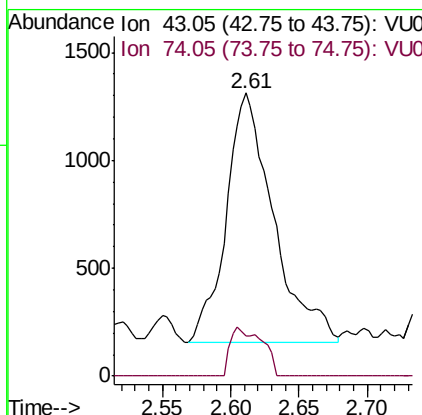
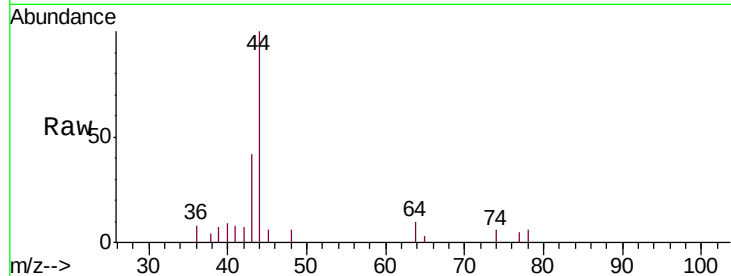
#15
Methyl Acetate
Concen: 0.432 ug/L
RT: 2.61 min Scan# 473
Delta R.T. 0.00 min
Lab File: VU035037.D
Acq: 10 Oct 2019 10:17

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tgt Ion: 43 Resp: 2812
Ion Ratio Lower Upper
43 100
74 13.1 17.8 26.8#

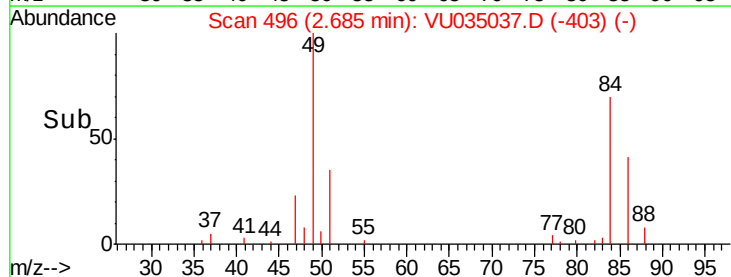
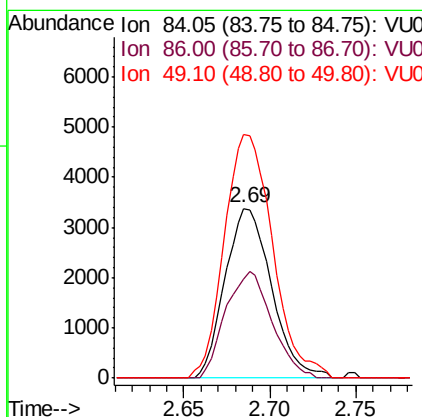
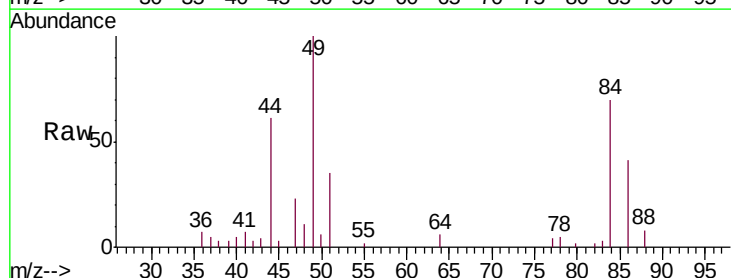
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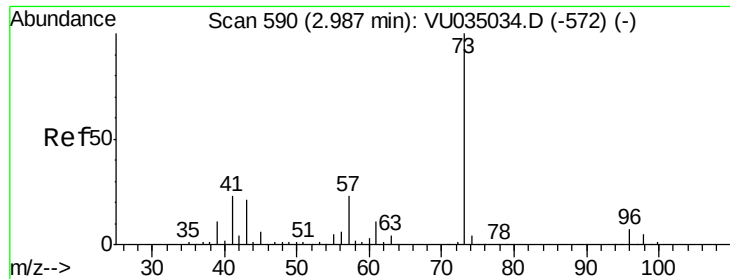
MMDadoda
10/11/2019 8:46:54 AM



#16
Methylene chloride
Concen: 0.466 ug/L
RT: 2.69 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU035037.D
Acq: 10 Oct 2019 10:17

Tgt Ion: 84 Resp: 6368
Ion Ratio Lower Upper
84 100
86 58.3 42.5 78.9
49 143.5 86.9 161.3





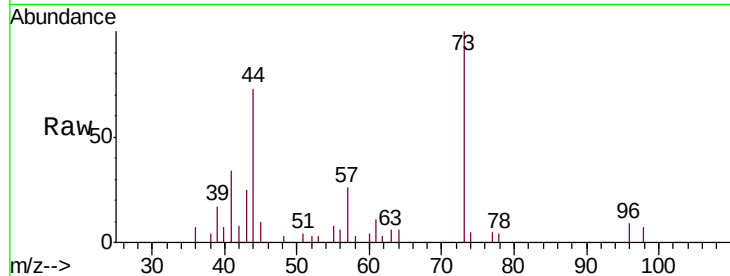
#17
Methyl tert-butyl Ether
Concen: 0.363 ug/L
RT: 2.99 min Scan# 591
Delta R.T. 0.00 min
Lab File: VU035037.D
Acq: 10 Oct 2019 10:17

Instrument :
MSVOA_U
ClientSampleId :
MDL02

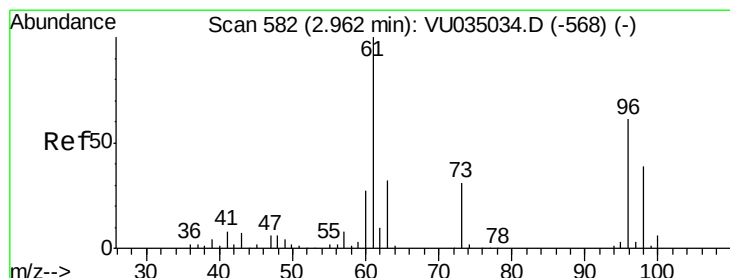
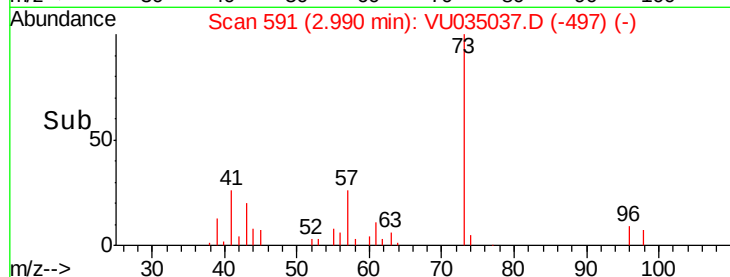
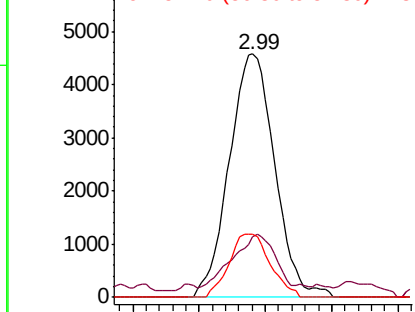
Tgt Ion	Ratio	Lower	Upper
73	100		
43	19.8	16.3	24.5
57	23.5	18.6	28.0

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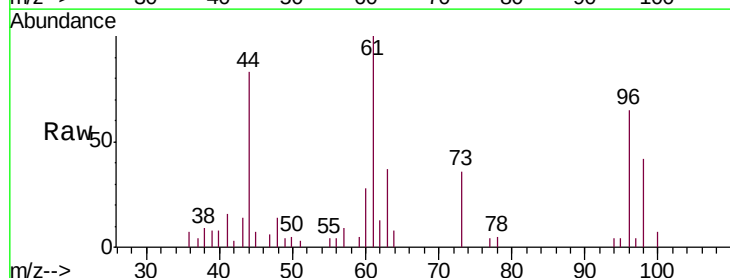


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

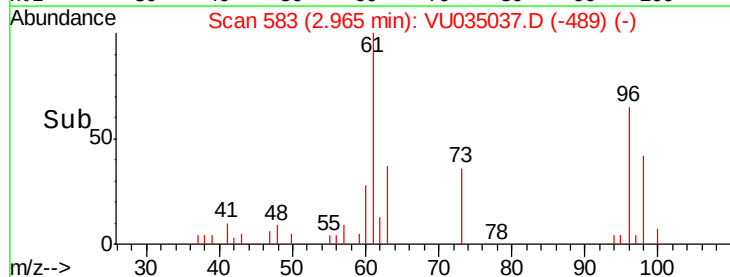
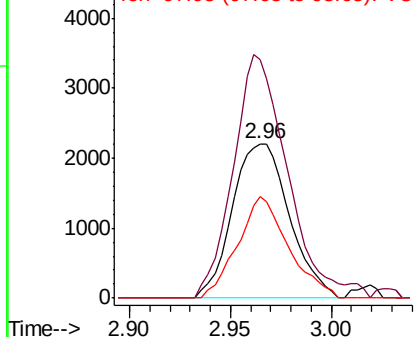


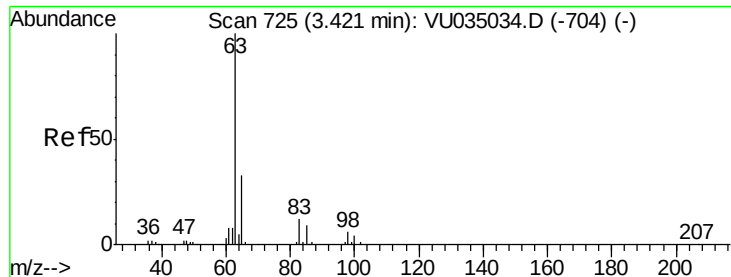
#18
trans-1,2-Dichloroethene
Concen: 0.369 ug/L
RT: 2.96 min Scan# 583
Delta R.T. 0.00 min
Lab File: VU035037.D
Acq: 10 Oct 2019 10:17

Tgt Ion	Ratio	Lower	Upper
96	100		
61	153.9	107.1	198.9
98	65.3	45.4	84.4



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 0.352 ug/L

RT: 3.42 min Scan# 726

Delta R.T. 0.01 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Instrument :

MSVOA_U

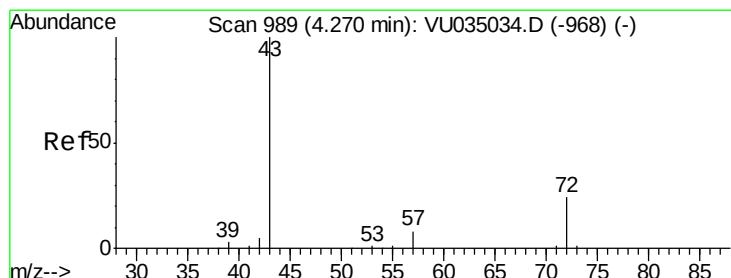
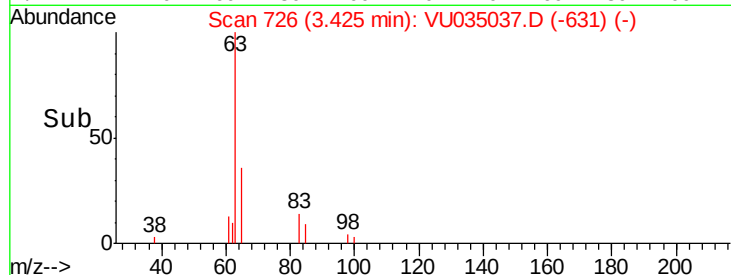
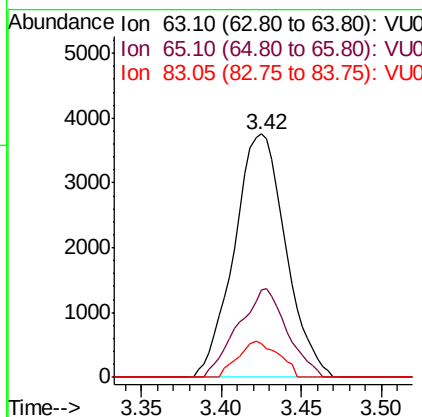
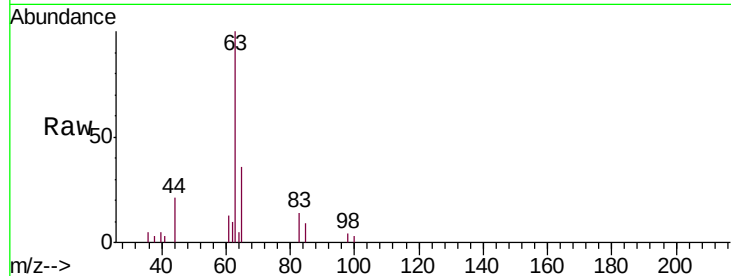
ClientSampled :

MDL02

Tgt Ion:	63	Resp:	8273
Ion	Ratio	Lower	Upper
63	100		
65	36.0	21.7	40.3
83	13.6	9.0	16.8

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#21

2-Butanone

Concen: 3.193 ug/L

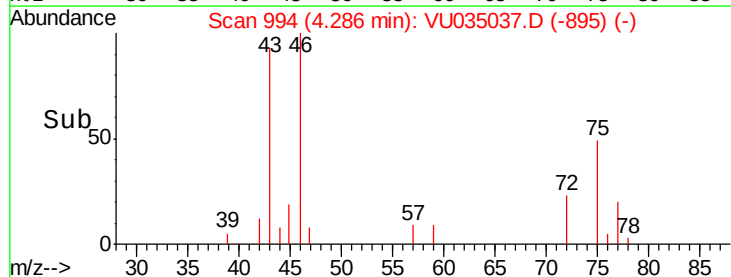
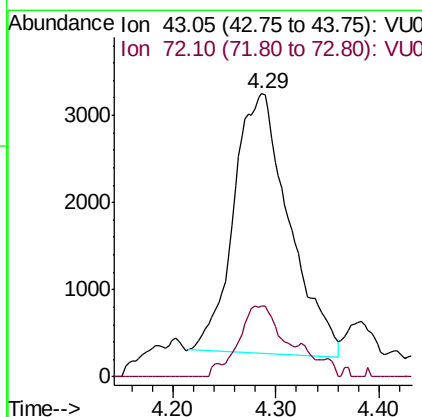
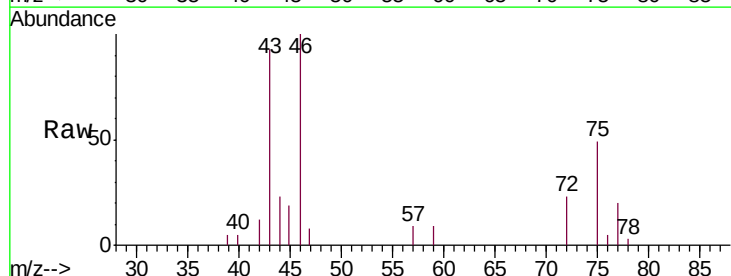
RT: 4.29 min Scan# 994

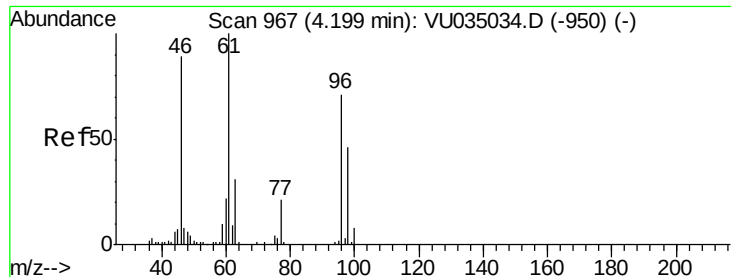
Delta R.T. 0.02 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Tgt Ion:	43	Resp:	11133
Ion	Ratio	Lower	Upper
43	100		
72	21.1	13.5	40.4





#22

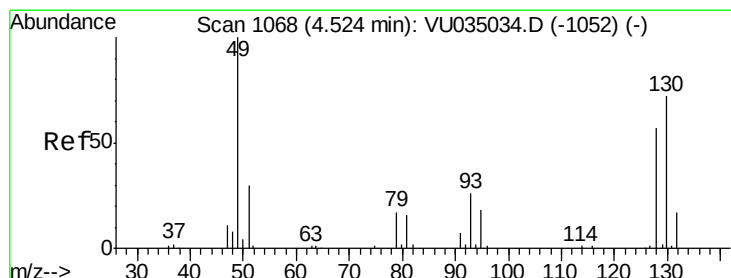
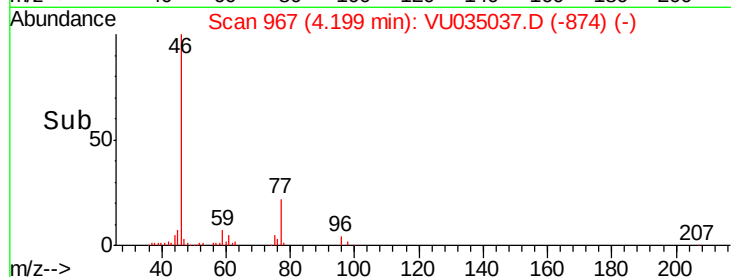
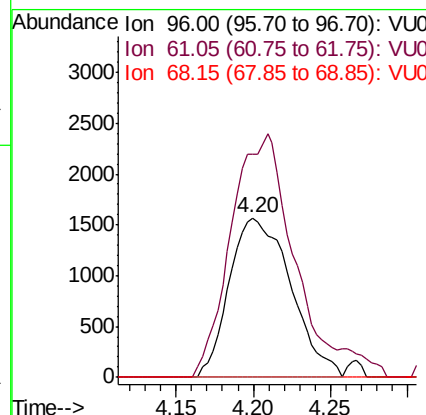
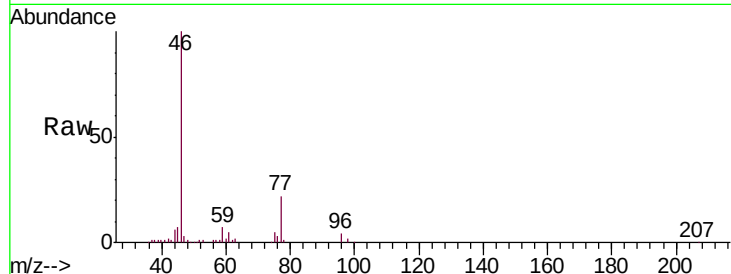
cis-1,2-Dichloroethene
Concen: 0.329 ug/L
RT: 4.20 min Scan# 967
Delta R.T. 0.00 min
Lab File: VU035037.D
Acq: 10 Oct 2019 10:17

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tgt Ion	Ratio	Lower	Upper
96	100		
61	139.9	89.2	165.6
68	0.0	0.0	0.0

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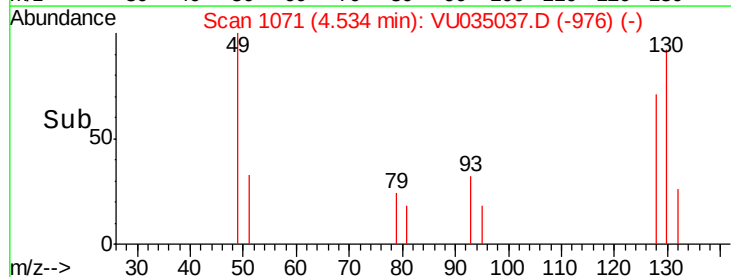
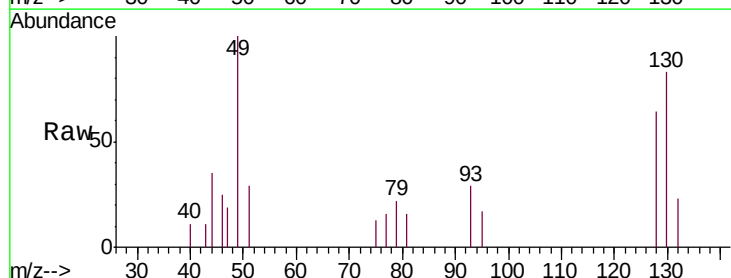
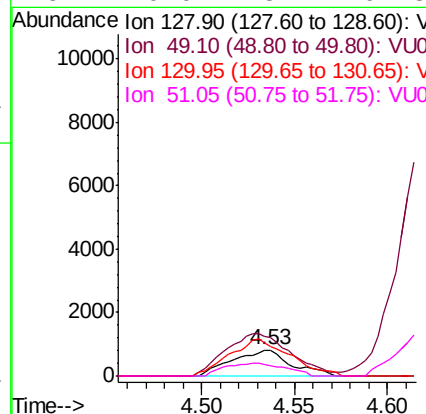
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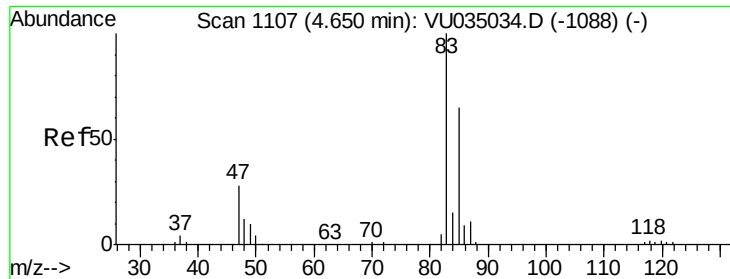


#23

Bromochloromethane
Concen: 0.328 ug/L
RT: 4.53 min Scan# 1071
Delta R.T. 0.01 min
Lab File: VU035037.D
Acq: 10 Oct 2019 10:17

Tgt Ion	Ratio	Lower	Upper
128	100		
49	156.3	110.5	205.3
130	129.6	88.6	164.6
51	46.0	43.2	64.8





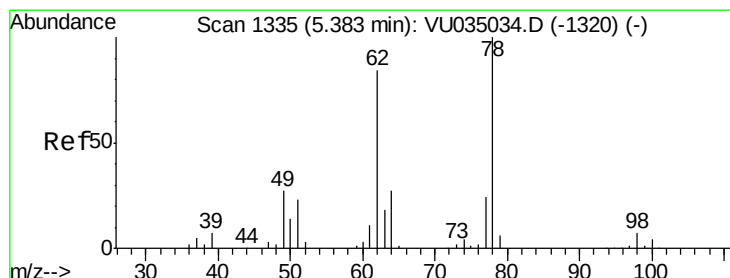
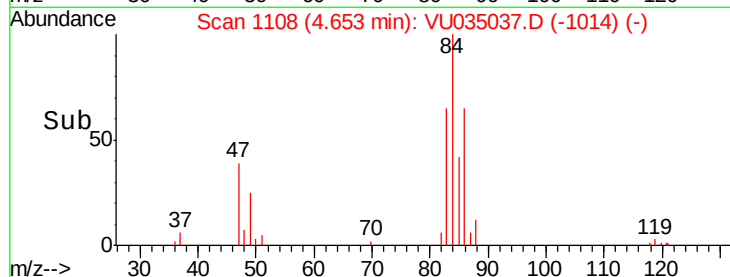
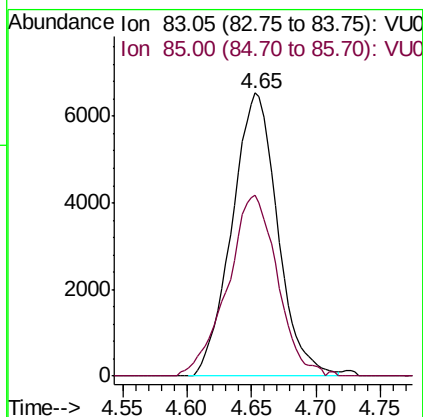
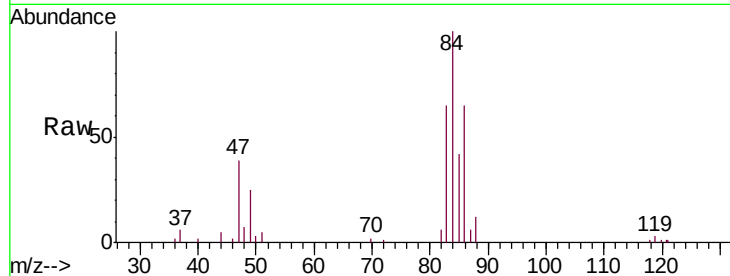
#25
Chloroform
Concen: 0.612 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. 0.00 min
Lab File: VU035037.D
Acq: 10 Oct 2019 10:17

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tgt Ion: 83 Resp: 16136
Ion Ratio Lower Upper
83 100
85 63.8 45.4 84.4

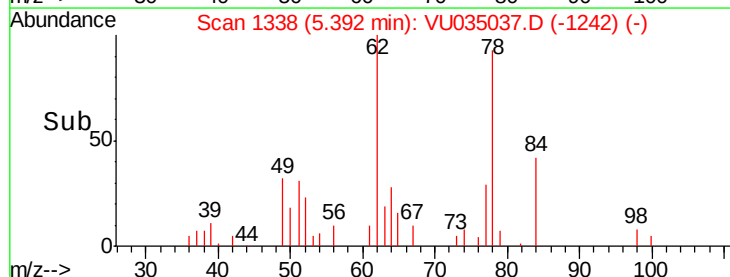
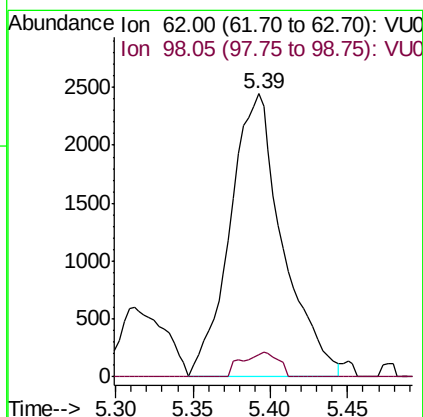
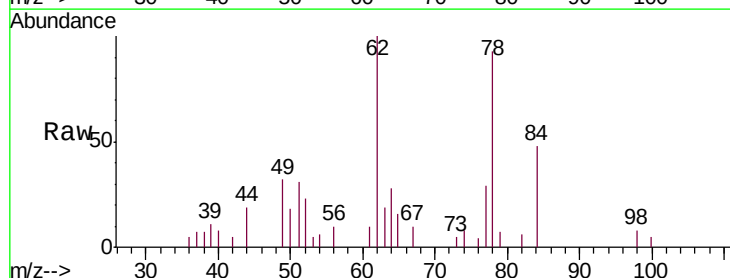
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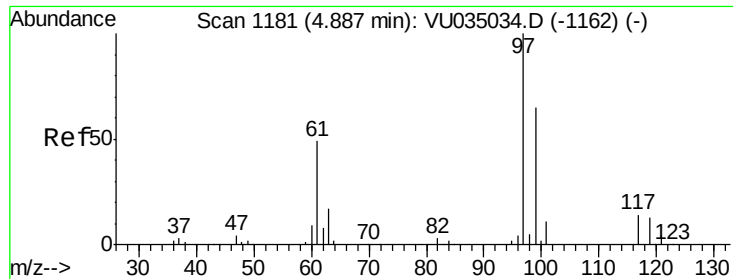
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#27
1,2-Dichloroethane
Concen: 0.376 ug/L
RT: 5.39 min Scan# 1338
Delta R.T. 0.01 min
Lab File: VU035037.D
Acq: 10 Oct 2019 10:17

Tgt Ion: 62 Resp: 5790
Ion Ratio Lower Upper
62 100
98 8.0 6.6 10.0





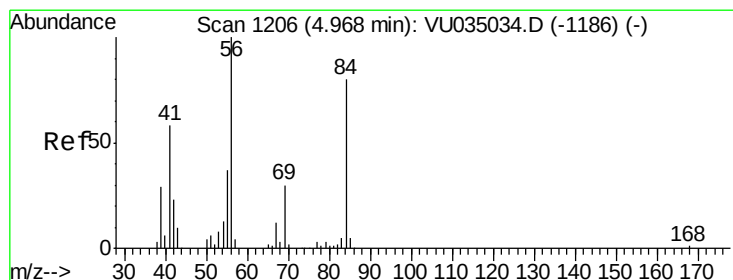
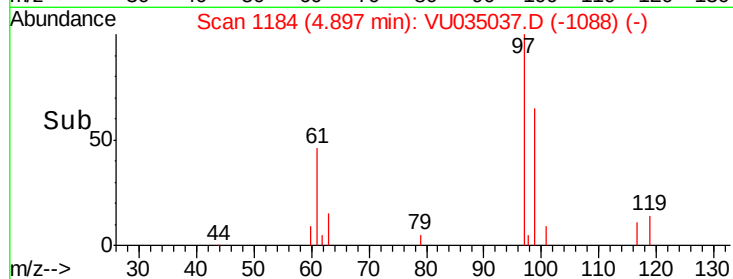
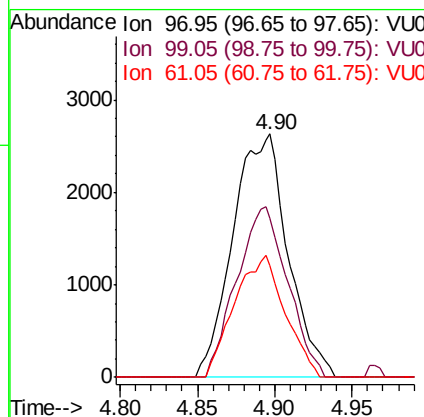
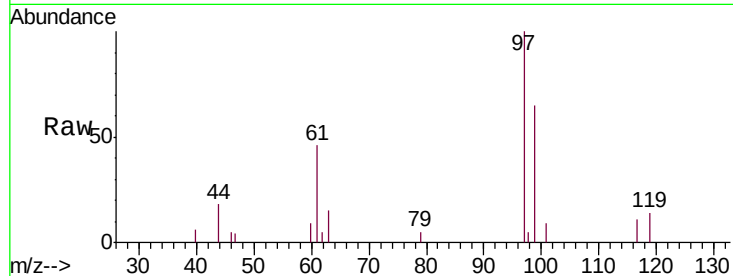
#29
 1,1,1-Trichloroethane
 Concen: 0.335 ug/L
 RT: 4.90 min Scan# 1184
 Delta R.T. 0.01 min
 Lab File: VU035037.D
 Acq: 10 Oct 2019 10:17

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.6	77.4
61	46.1	36.2	54.4

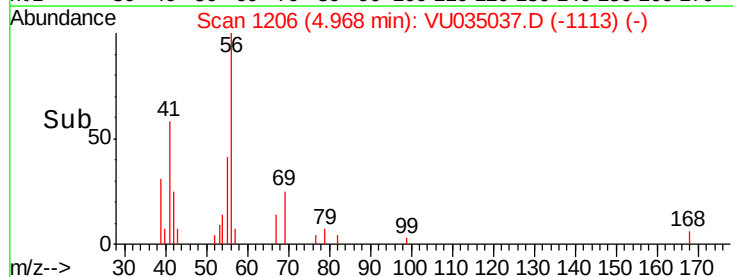
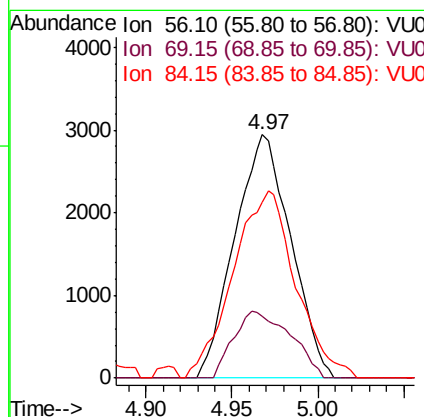
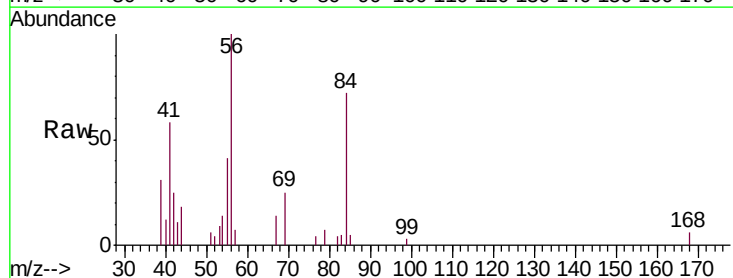
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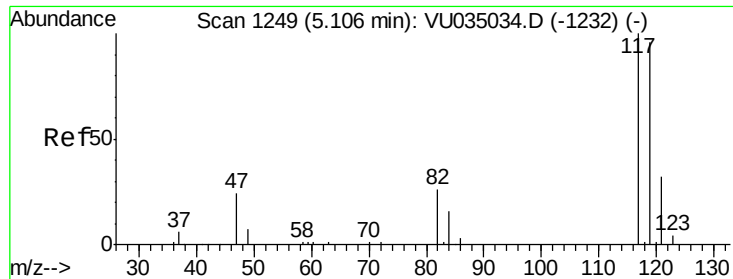
MMDadoda
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#30
 Cyclohexane
 Concen: 0.312 ug/L
 RT: 4.97 min Scan# 1206
 Delta R.T. 0.00 min
 Lab File: VU035037.D
 Acq: 10 Oct 2019 10:17

Tgt Ion	Ratio	Lower	Upper
56	100		
69	27.8	23.9	35.9
84	85.7	69.5	104.3





#31

Carbon tetrachloride

Concen: 0.315 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.01 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tgt Ion:117 Resp: 5305

Ion Ratio Lower Upper

117 100

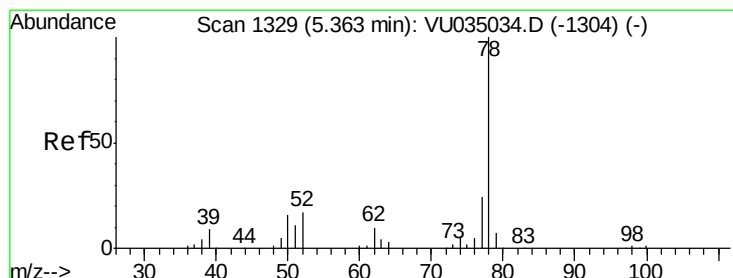
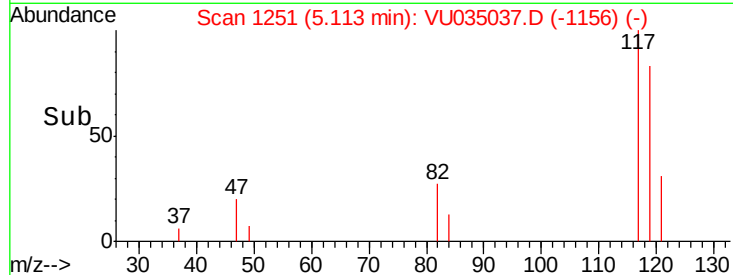
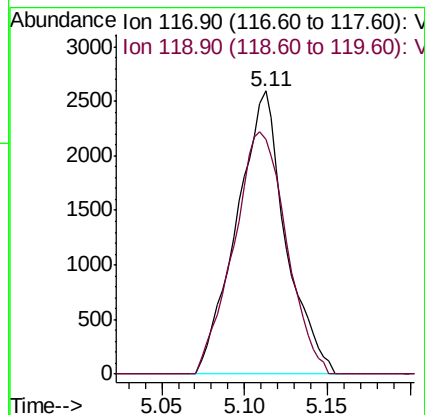
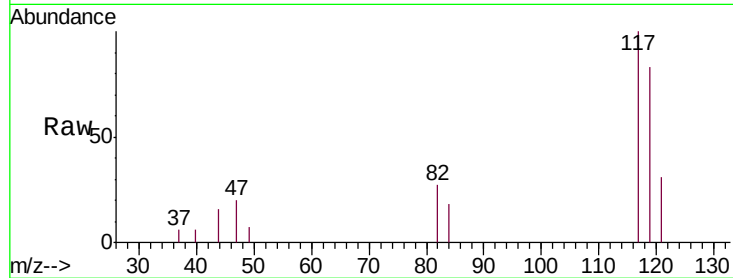
119 92.8 77.5 116.3

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#33

Benzene

Concen: 0.328 ug/L

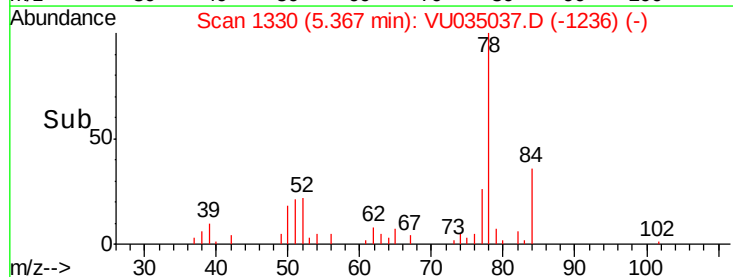
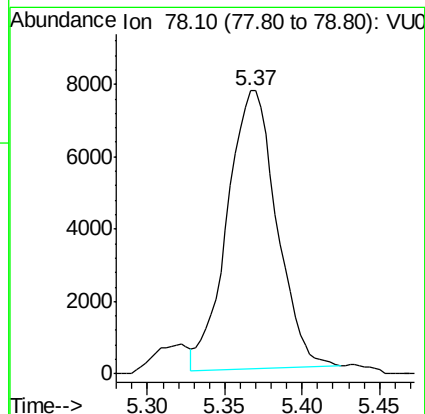
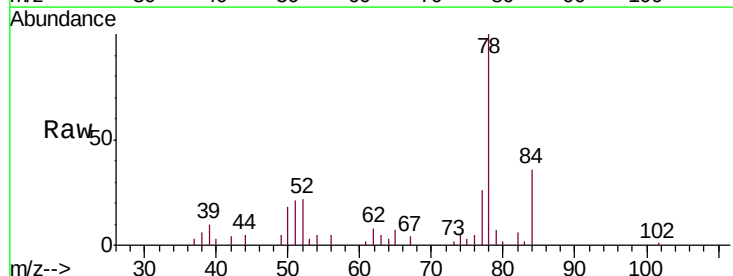
RT: 5.37 min Scan# 1330

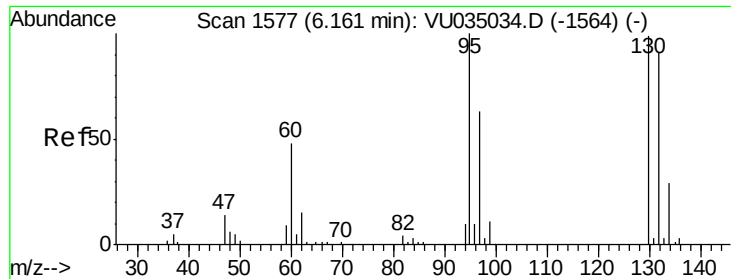
Delta R.T. 0.00 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Tgt Ion: 78 Resp: 17120





#34

Trichloroethene

Concen: 0.362 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.01 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Instrument :

MSVOA_U

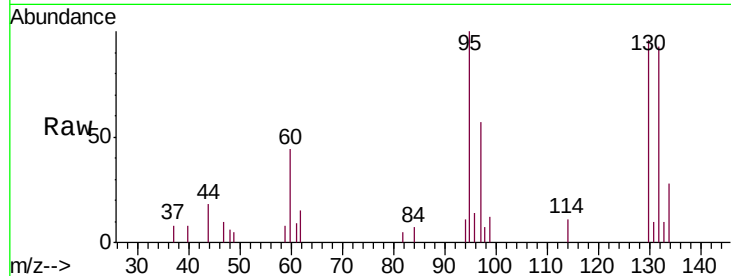
ClientSampleId :

MDL02

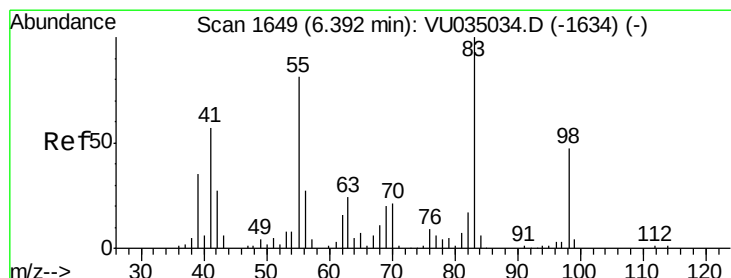
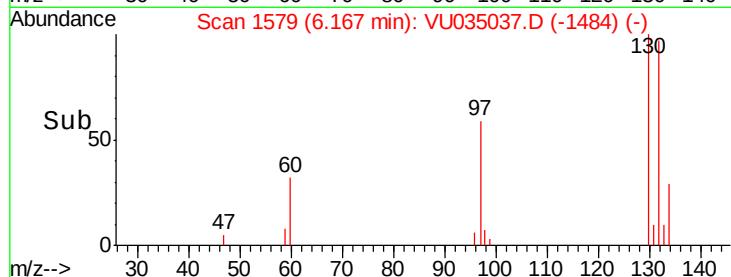
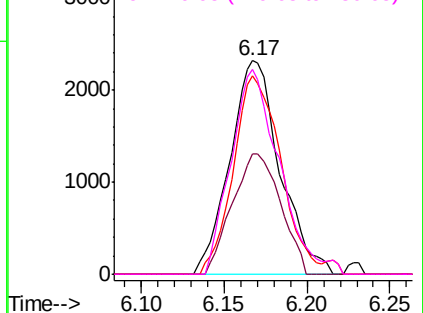
Tgt Ion:	95	Resp:	4870
Ion	Ratio	Lower	Upper
95	100		
97	56.5	44.5	82.7
132	93.2	66.6	123.8
130	95.9	68.9	127.9

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Abundance Ion 95.00 (94.70 to 95.70): VU035037.D (-1564) (-)



#35

Methylcyclohexane

Concen: 0.319 ug/L

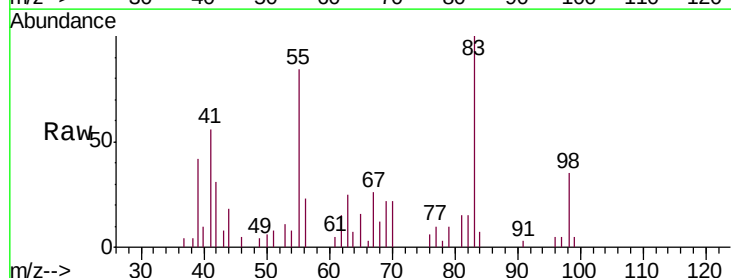
RT: 6.40 min Scan# 1650

Delta R.T. 0.01 min

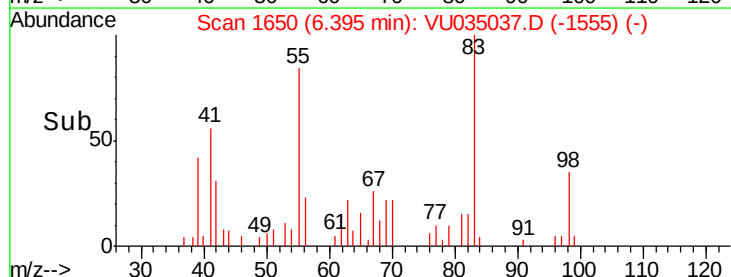
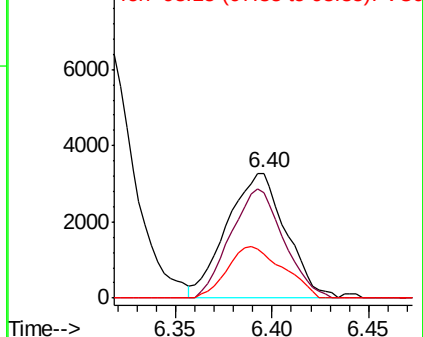
Lab File: VU035037.D

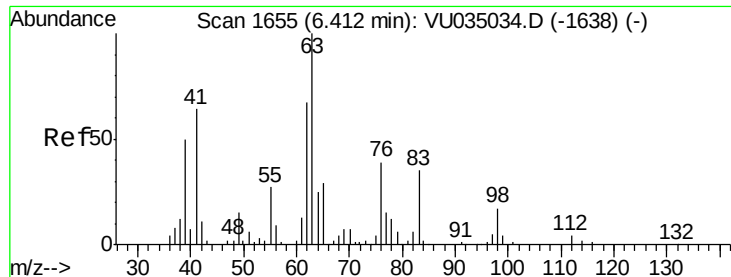
Acq: 10 Oct 2019 10:17

Tgt Ion:	83	Resp:	6961
Ion	Ratio	Lower	Upper
83	100		
55	78.6	62.6	94.0
98	39.1	36.2	54.2



Abundance Ion 83.15 (82.85 to 83.85): VU035037.D (-1555) (-)





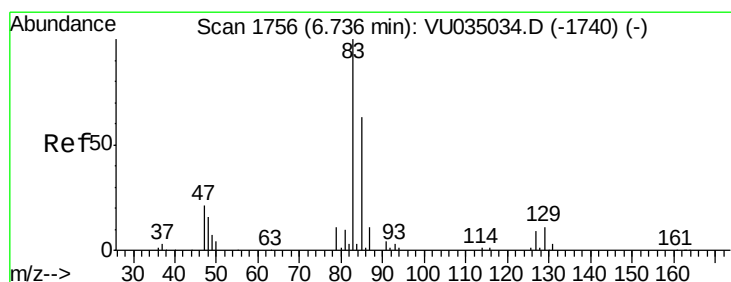
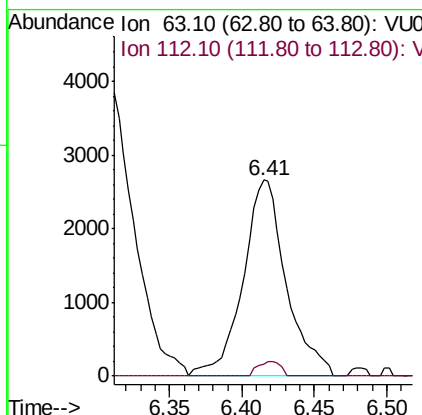
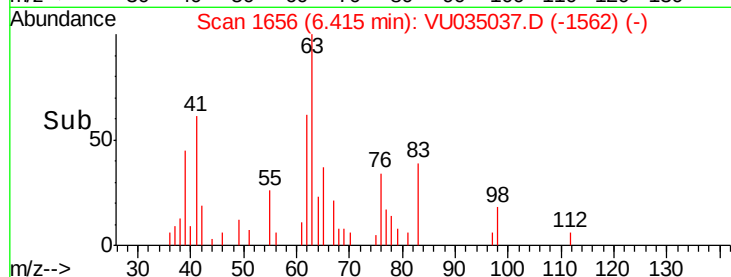
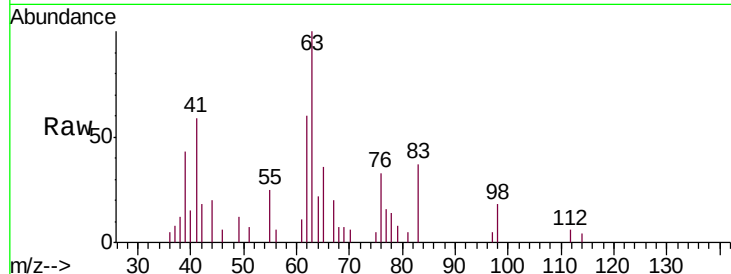
#37
 1,2-Dichloropropane
 Concen: 0.392 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU035037.D
 Acq: 10 Oct 2019 10:17

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tgt Ion: 63 Resp: 5523
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.1 4.7

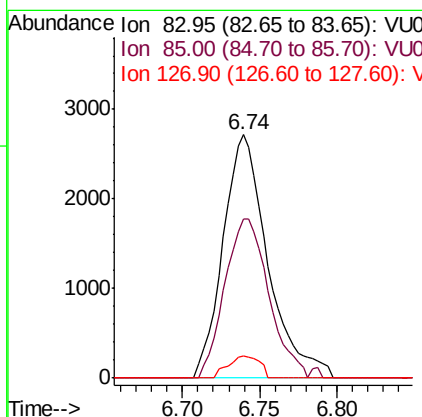
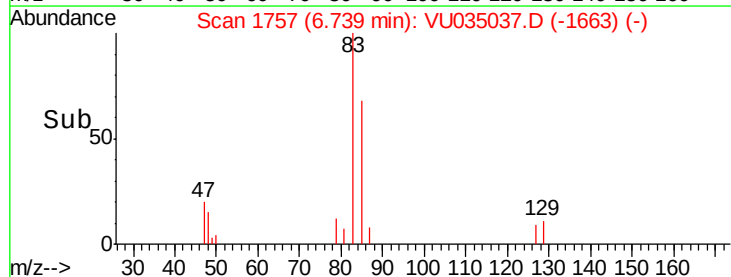
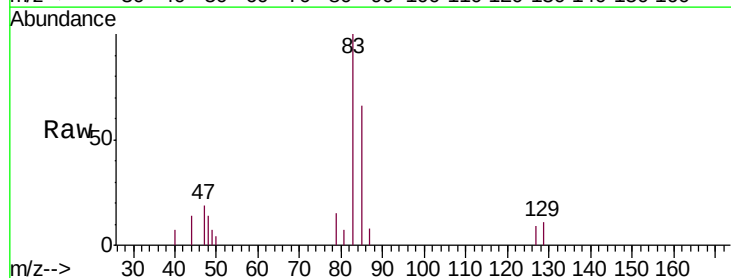
Manual Integrations
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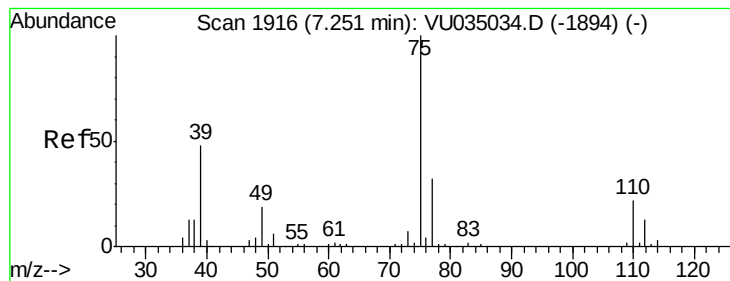
MMDadoda
 10/11/2019 8:46:54 AM



#38
 Bromodichloromethane
 Concen: 0.330 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU035037.D
 Acq: 10 Oct 2019 10:17

Tgt Ion: 83 Resp: 5444
 Ion Ratio Lower Upper
 83 100
 85 65.6 44.0 81.8
 127 8.9 7.0 10.4





#39

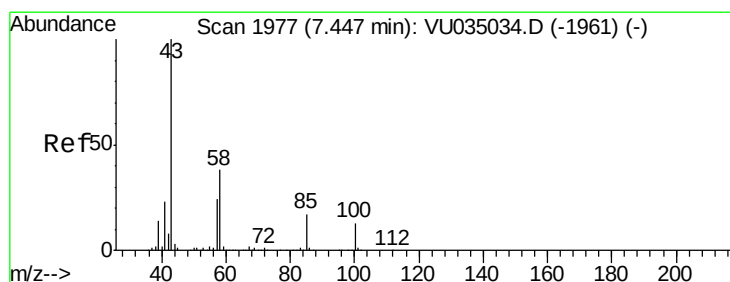
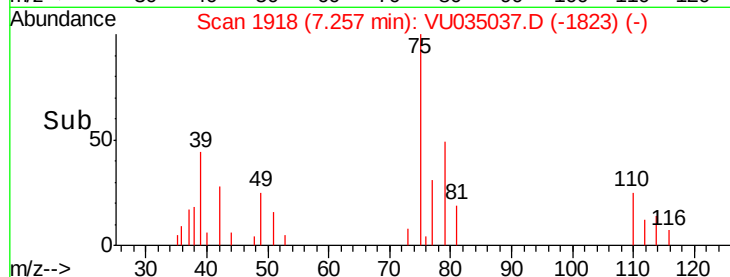
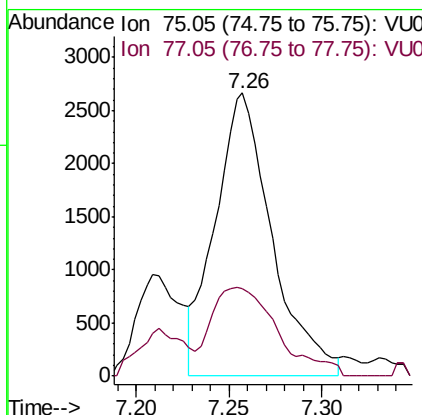
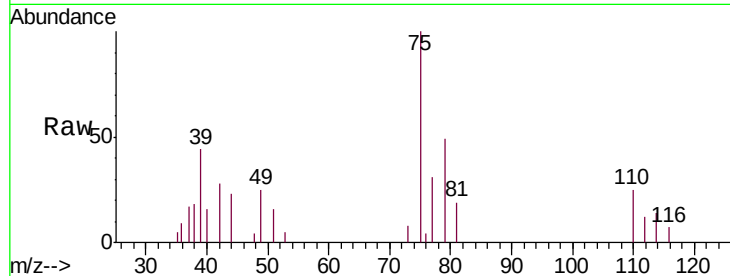
cis-1,3-Dichloropropene
 Concen: 0.297 ug/L
 RT: 7.26 min Scan# 1918
 Delta R.T. 0.01 min
 Lab File: VU035037.D
 Acq: 10 Oct 2019 10:17

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tgt Ion: 75 Resp: 5669
 Ion Ratio Lower Upper
 75 100
 77 30.8 22.1 41.1

Manual Integrations
 APPROVED

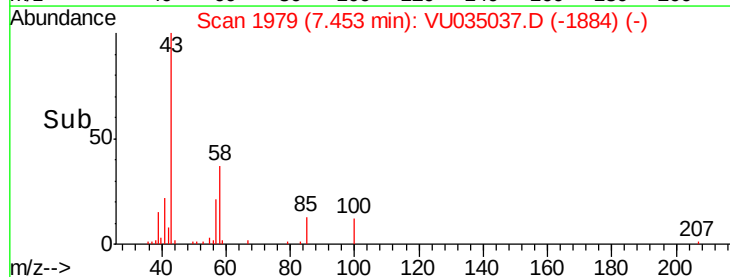
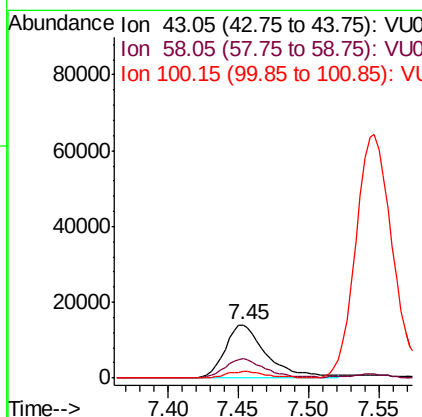
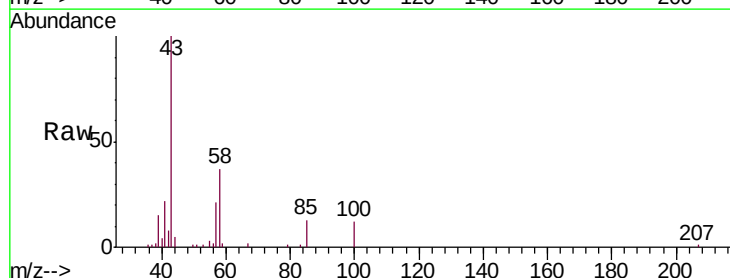
MMDadoda
 10/11/2019 8:46:54 AM

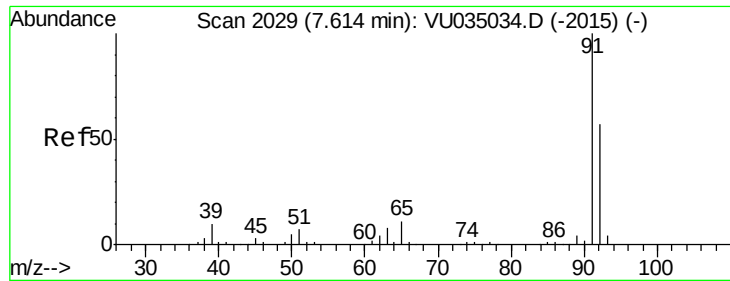


#40

4-Methyl-2-pentanone
 Concen: 3.278 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. 0.01 min
 Lab File: VU035037.D
 Acq: 10 Oct 2019 10:17

Tgt Ion: 43 Resp: 29034
 Ion Ratio Lower Upper
 43 100
 58 35.9 32.4 48.6
 100 12.4 11.9 17.9





#42

Toluene

Concen: 0.336 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tgt Ion: 91 Resp: 18307

Ion Ratio Lower Upper

91 100

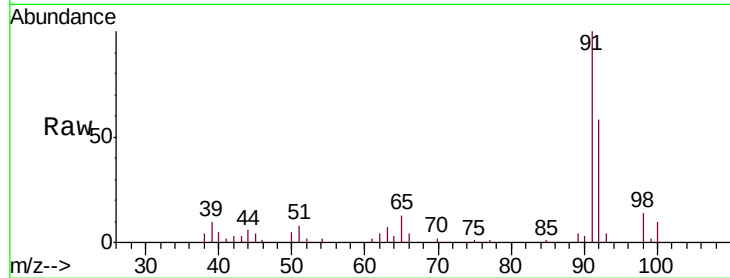
92 57.7 40.0 74.2

Manual Integrations

APPROVED

MMDadoda

10/11/2019 8:46:54 AM



Abundance Ion 91.15 (90.85 to 91.85): VU035037.D (-2030) (-)

Ion 92.15 (91.85 to 92.85): VU035037.D (-2030) (-)

7.62

10000

8000

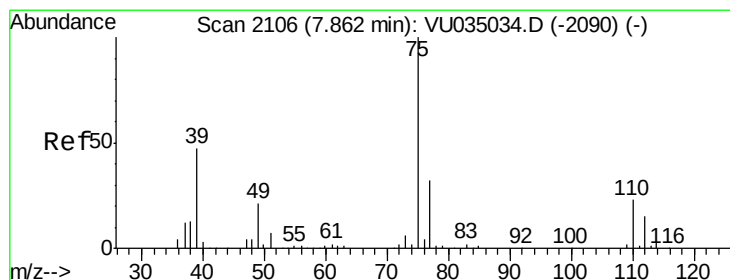
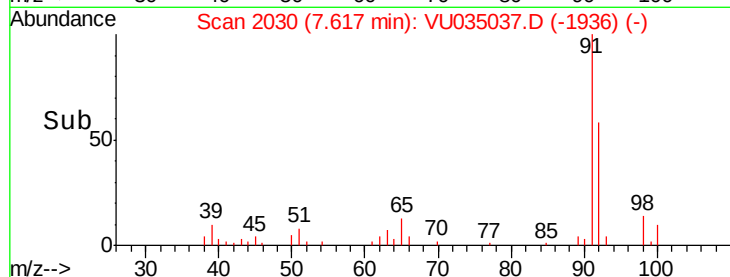
6000

4000

2000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.311 ug/L m

RT: 7.87 min Scan# 2109

Delta R.T. 0.01 min

Lab File: VU035037.D

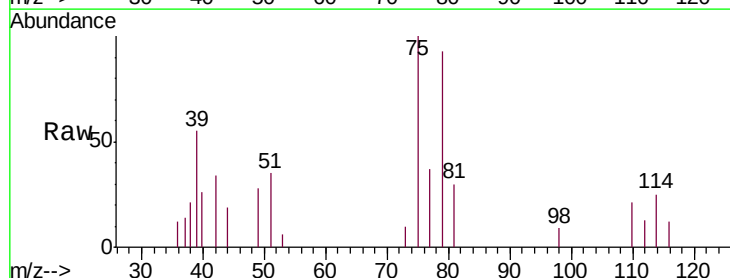
Acq: 10 Oct 2019 10:17

Tgt Ion: 75 Resp: 4596

Ion Ratio Lower Upper

75 100

77 37.2 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VU035037.D (-2109) (-)

Ion 77.05 (76.75 to 77.75): VU035037.D (-2109) (-)

7.87

2000

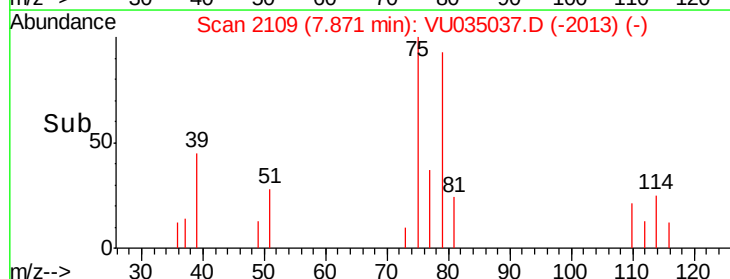
1500

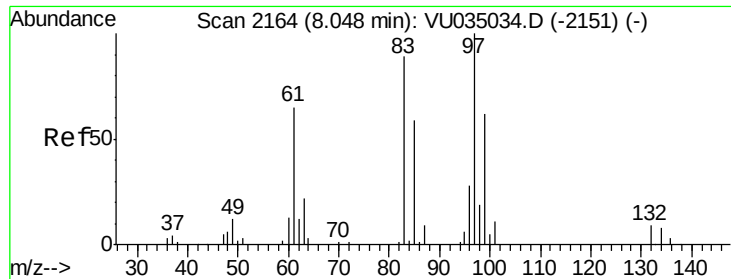
1000

500

0

Time-->





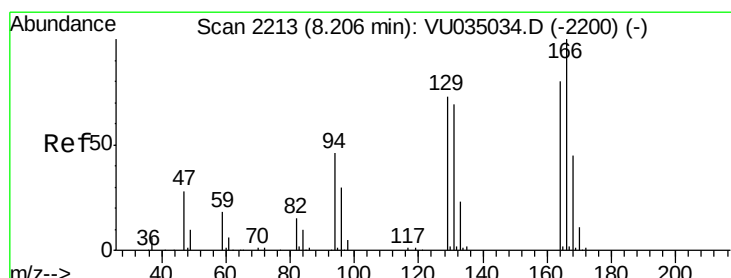
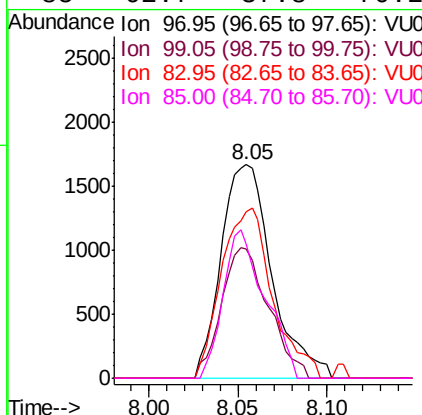
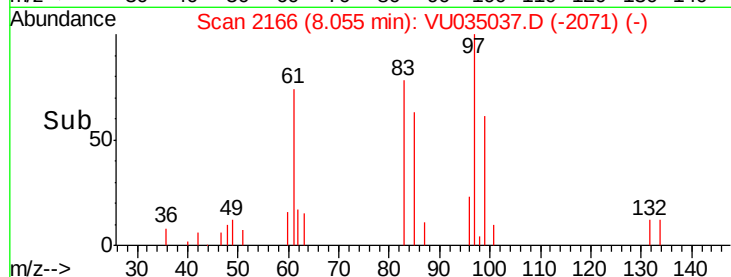
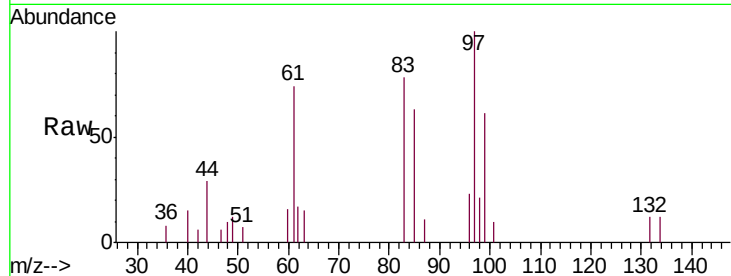
#45
 1,1,2-Trichloroethane
 Concen: 0.354 ug/L
 RT: 8.05 min Scan# 2166
 Delta R.T. 0.01 min
 Lab File: VU035037.D
 Acq: 10 Oct 2019 10:17

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tgt Ion:	97	Resp:	3308
Ion	Ratio	Lower	Upper
97	100		
99	60.6	42.3	78.5
83	77.9	58.0	107.6
85	62.7	37.8	70.2

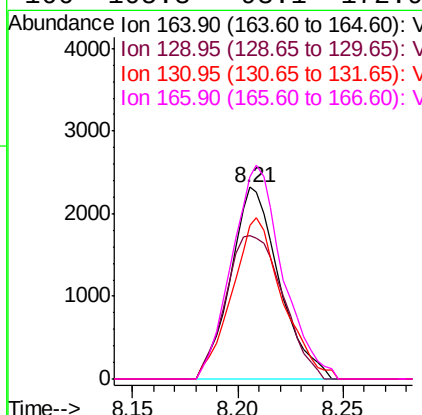
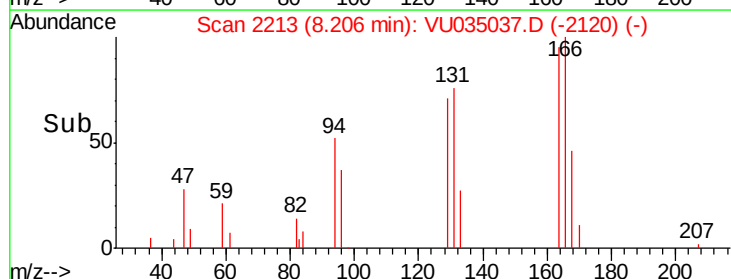
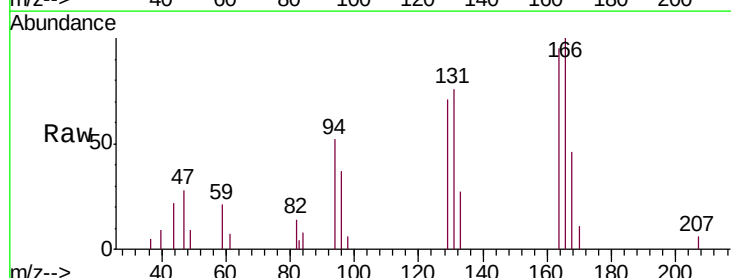
Manual Integrations
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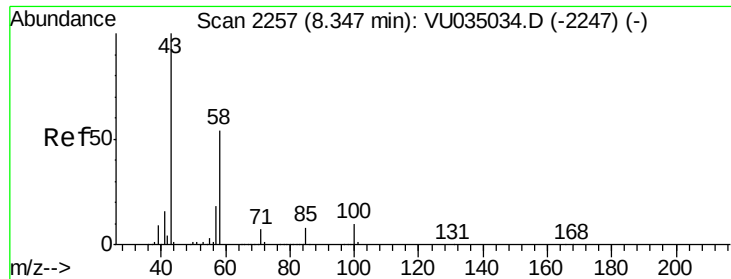
MMDadoda
 10/11/2019 8:46:54 AM



#47
 Tetrachloroethene
 Concen: 0.342 ug/L
 RT: 8.21 min Scan# 2213
 Delta R.T. 0.00 min
 Lab File: VU035037.D
 Acq: 10 Oct 2019 10:17

Tgt Ion:	164	Resp:	3727
Ion	Ratio	Lower	Upper
164	100		
129	74.9	68.5	127.1
131	80.1	67.3	124.9
166	105.3	93.1	172.9





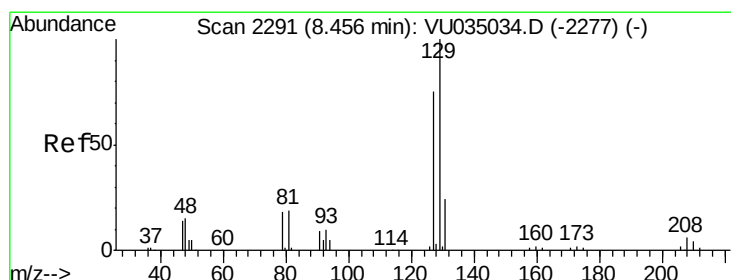
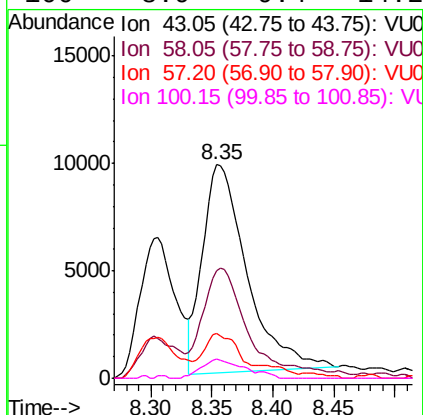
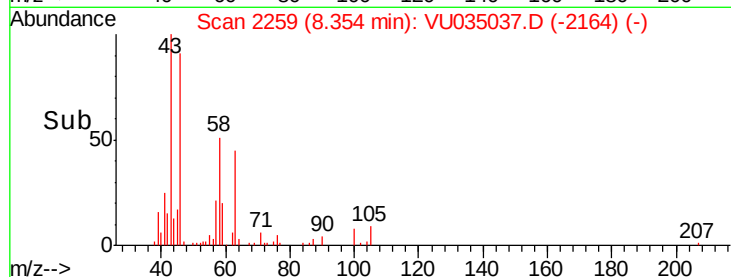
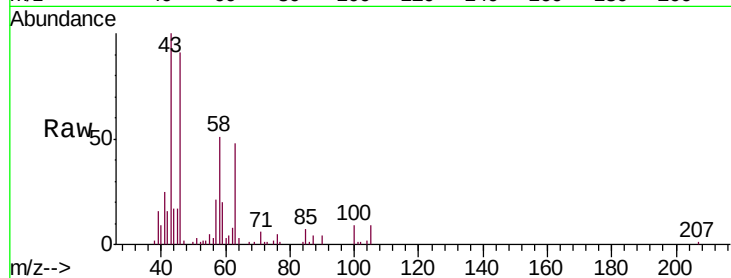
#48
2-Hexanone
Concen: 4.030 ug/L
RT: 8.35 min Scan# 2259
Delta R.T. 0.01 min
Lab File: VU035037.D
Acq: 10 Oct 2019 10:17

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tgt Ion	Ratio	Lower	Upper
43	100		
58	49.5	44.1	66.1
57	21.0	15.8	23.8
100	8.9	9.4	14.2

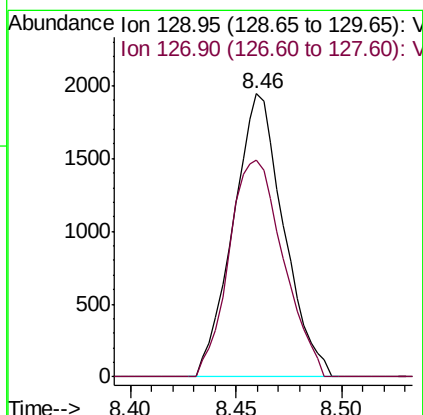
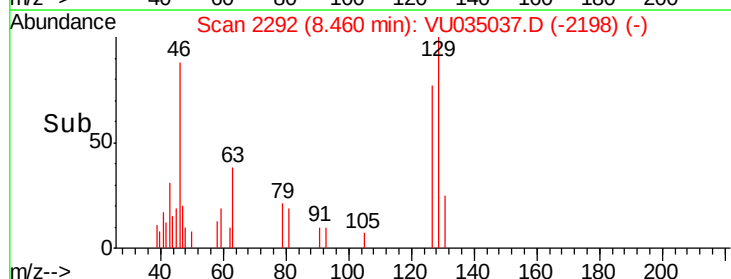
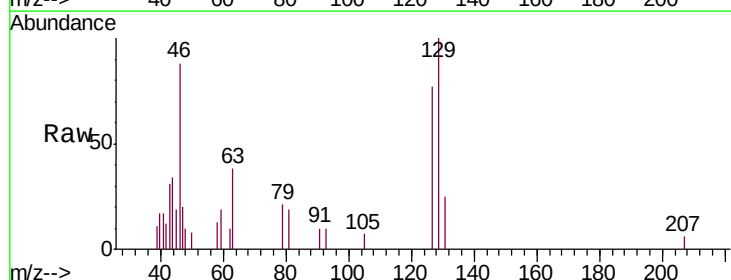
Manual Integrations
APPROVED

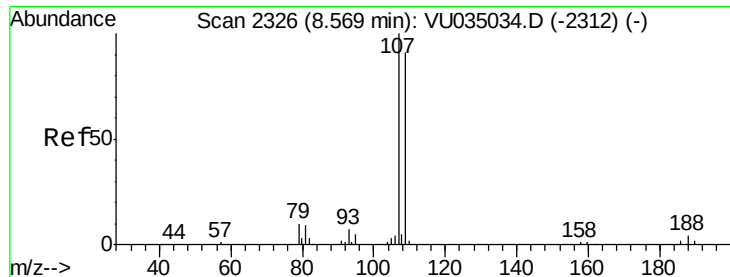
MMDadoda
10/11/2019 8:46:54 AM



#49
Dibromochloromethane
Concen: 0.299 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU035037.D
Acq: 10 Oct 2019 10:17

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.7	51.9	96.5





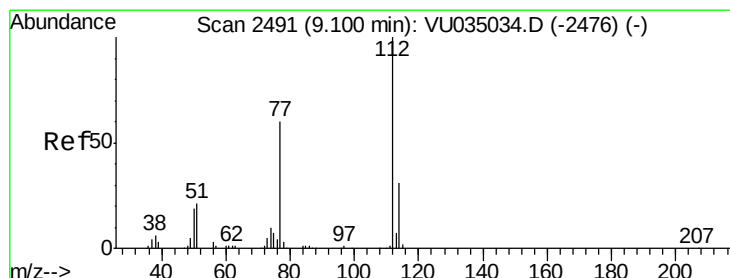
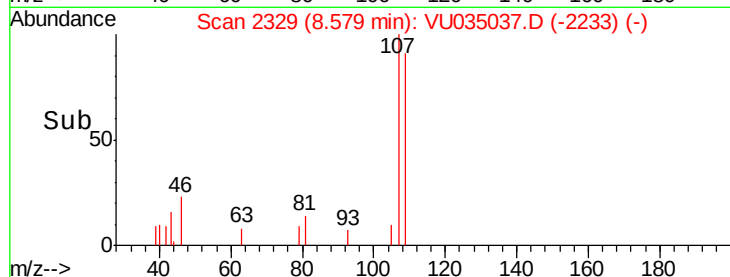
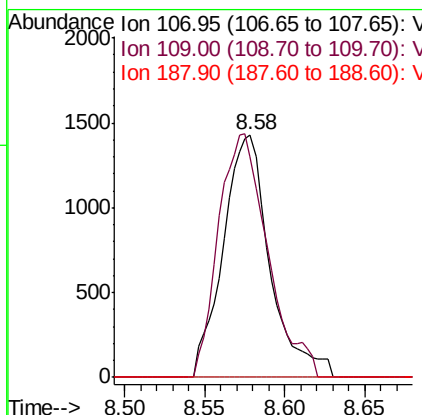
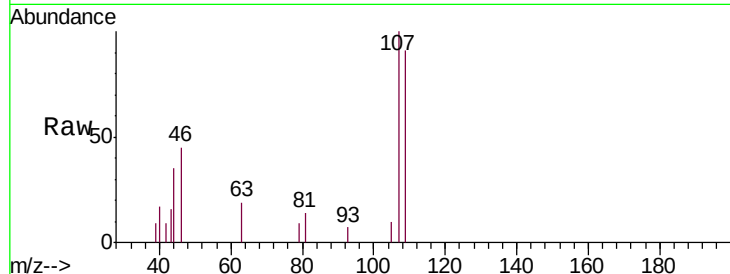
#50
1,2-Dibromoethane
Concen: 0.320 ug/L
RT: 8.58 min Scan# 2329
Delta R.T. 0.01 min
Lab File: VU035037.D
Acq: 10 Oct 2019 10:17

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tgt Ion	Ratio	Resp	Lower	Upper
107	100	2858		
109	90.8	64.8	120.4	
188	0.0	3.0	4.6#	

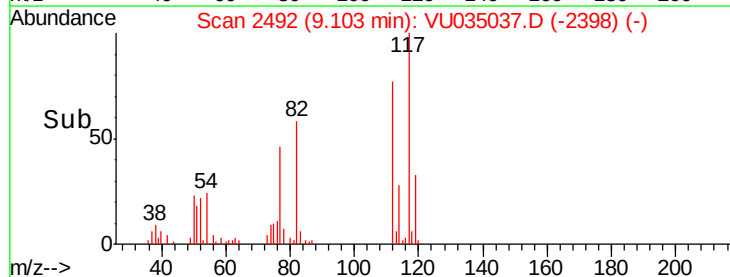
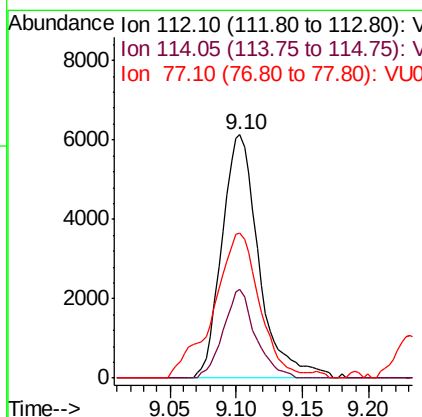
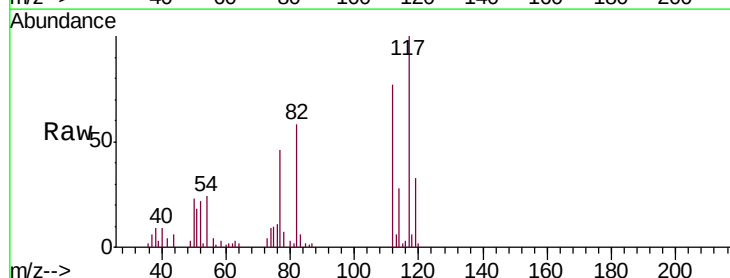
Manual Integrations
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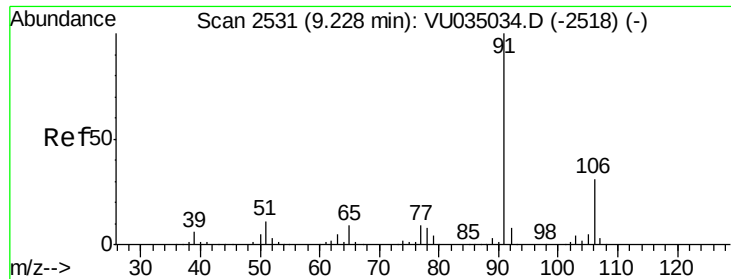
MMDadoda
10/11/2019 8:46:54 AM



#51
Chlorobenzene
Concen: 0.337 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU035037.D
Acq: 10 Oct 2019 10:17

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	11902		
114	36.7	22.1	41.1	
77	59.8	46.9	70.3	





#52

Ethylbenzene

Concen: 0.318 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.01 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Tgt Ion: 91 Resp: 19115

Ion Ratio Lower Upper

91 100

106 35.0 21.6 40.2

Instrument :

MSVOA_U

ClientSampled :

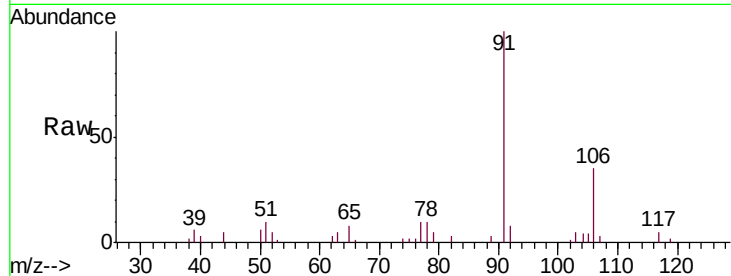
MDL02

Manual Integrations

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MMDadoda

10/11/2019 8:46:54 AM



Abundance Ion 91.15 (90.85 to 91.85): VU035037.D (-2518) (-)

Ion 106.15 (105.85 to 106.85): VU035037.D (-2518) (-)

12000

10000

8000

6000

4000

2000

0

9.15

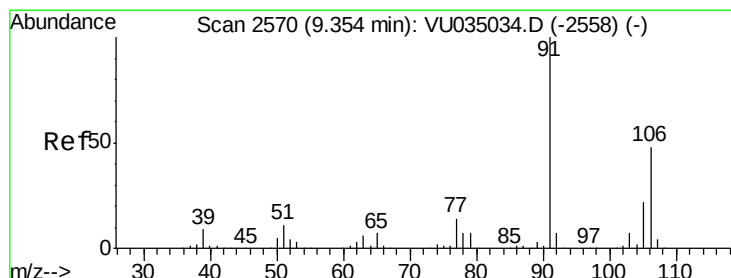
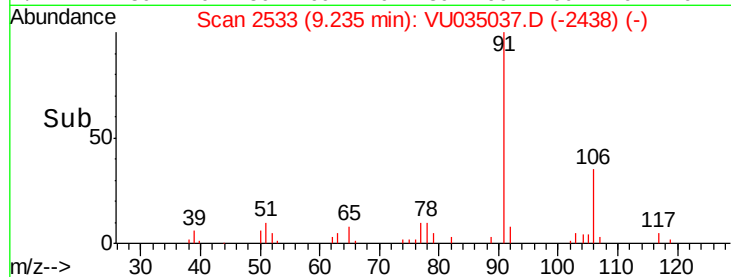
9.20

9.23

9.25

9.30

Time-->



#53

m,p-Xylene

Concen: 0.305 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.01 min

Lab File: VU035037.D

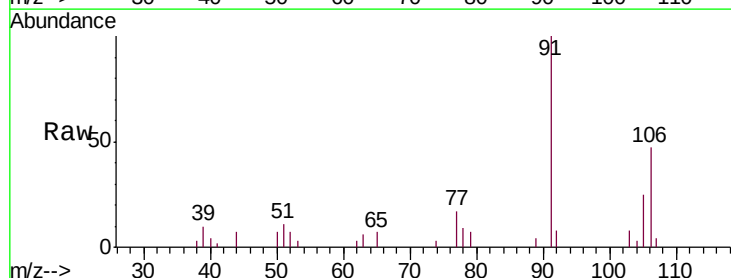
Acq: 10 Oct 2019 10:17

Tgt Ion: 106 Resp: 6768

Ion Ratio Lower Upper

106 100

91 211.1 147.6 274.0



Abundance Ion 106.15 (105.85 to 106.85): VU035037.D (-2558) (-)

Ion 91.15 (90.85 to 91.85): VU035037.D (-2558) (-)

8000

6000

4000

2000

0

9.30

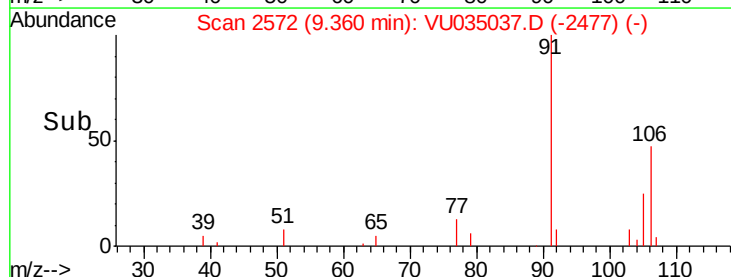
9.35

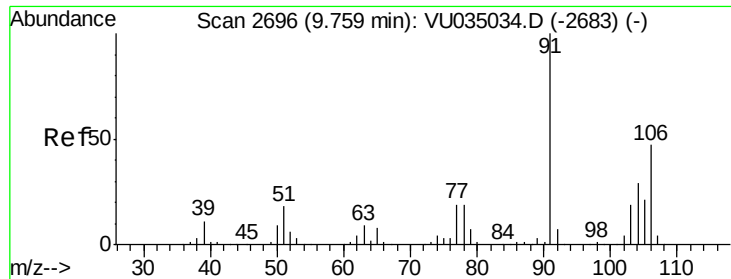
9.36

9.40

9.45

Time-->





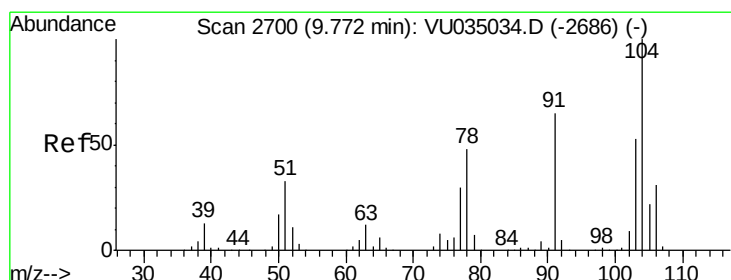
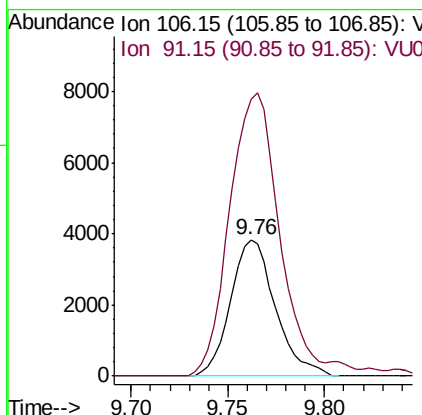
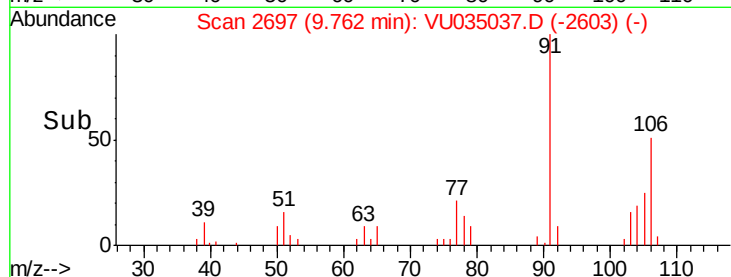
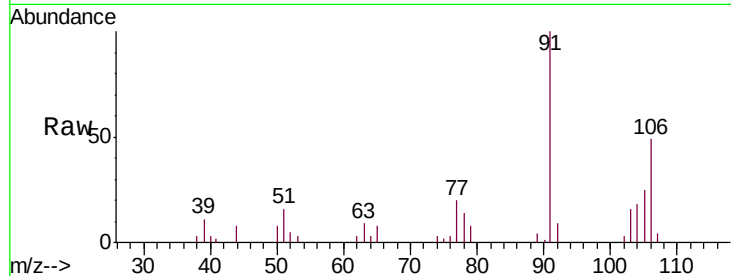
#54
o-Xylene
Concen: 0.284 ug/L
RT: 9.76 min Scan# 2697
Delta R.T. 0.00 min
Lab File: VU035037.D
Acq: 10 Oct 2019 10:17

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tgt Ion:106 Resp: 6174
Ion Ratio Lower Upper
106 100
91 202.9 148.5 275.7

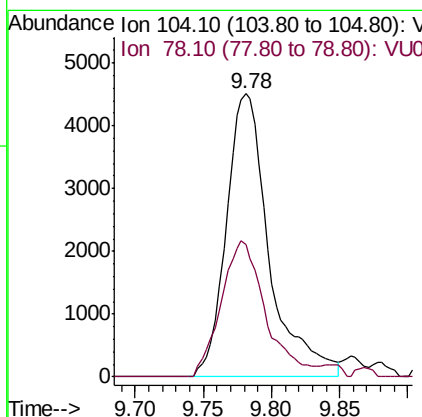
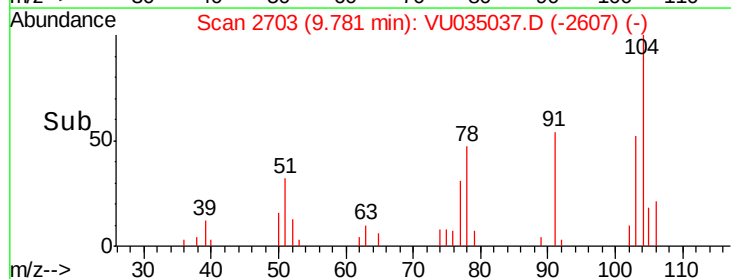
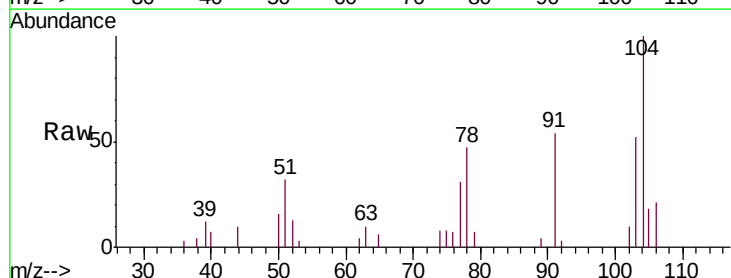
Manual Integrations
APPROVED

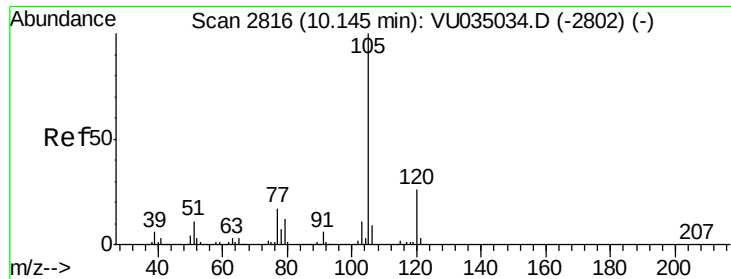
MMDadoda
10/11/2019 8:46:54 AM



#55
Styrene
Concen: 0.280 ug/L
RT: 9.78 min Scan# 2703
Delta R.T. 0.01 min
Lab File: VU035037.D
Acq: 10 Oct 2019 10:17

Tgt Ion:104 Resp: 9858
Ion Ratio Lower Upper
104 100
78 46.6 32.8 60.8





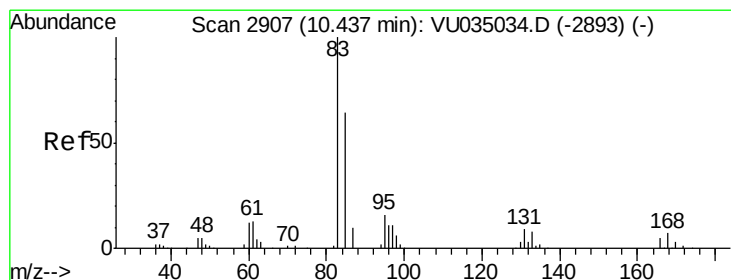
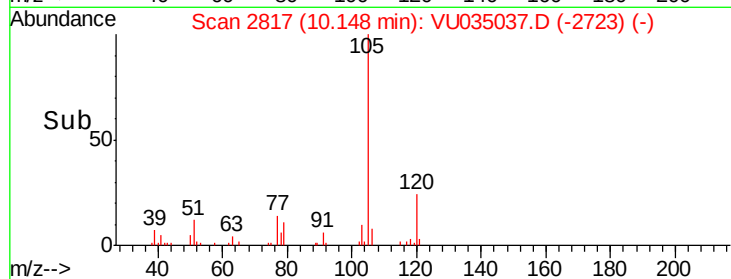
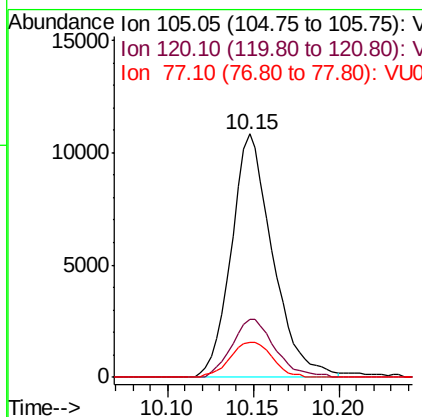
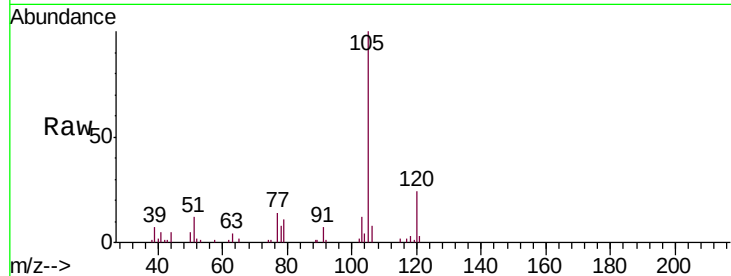
#56
Isopropylbenzene
Concen: 0.312 ug/L
RT: 10.15 min Scan# 2817
Delta R.T. 0.00 min
Lab File: VU035037.D
Acq: 10 Oct 2019 10:17

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tgt Ion:	105	Resp:	18038
Ion Ratio	Lower	Upper	
105	100		
120	24.7	21.3	31.9
77	14.8	13.0	19.4

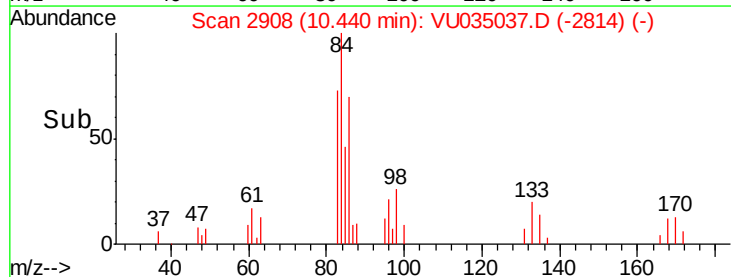
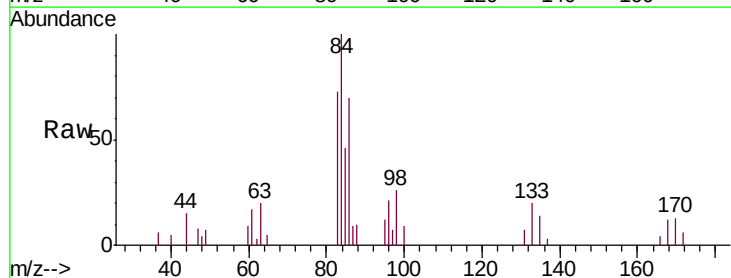
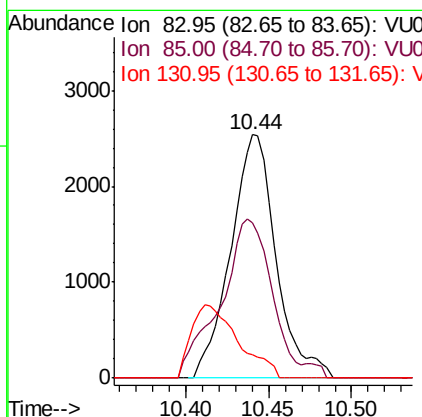
Manual Integrations
APPROVED

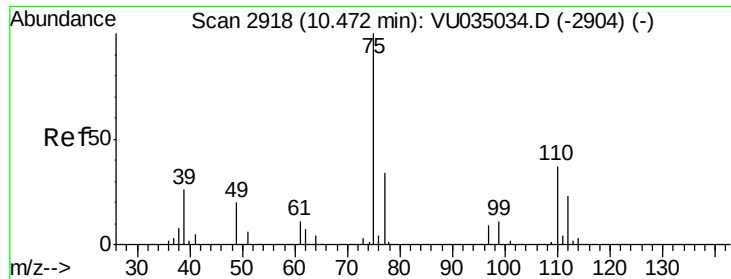
MMDadoda
10/11/2019 8:46:54 AM



#58
1,1,2,2-Tetrachloroethane
Concen: 0.380 ug/L
RT: 10.44 min Scan# 2908
Delta R.T. 0.00 min
Lab File: VU035037.D
Acq: 10 Oct 2019 10:17

Tgt Ion:	83	Resp:	4827
Ion Ratio	Lower	Upper	
83	100		
85	63.7	44.6	82.8
131	9.5	7.4	11.2





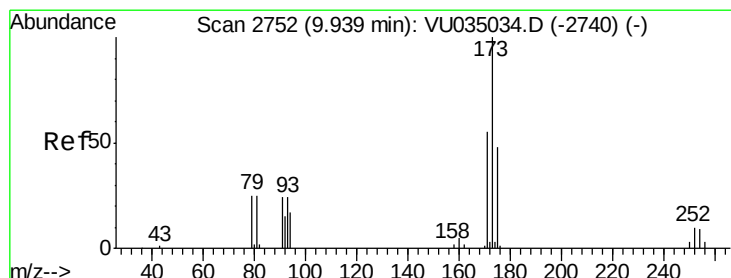
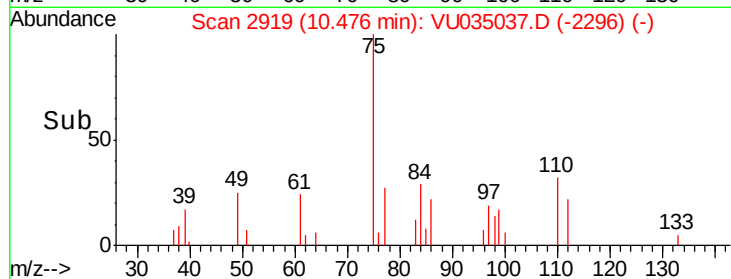
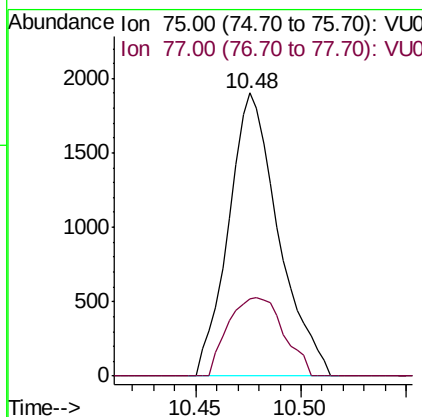
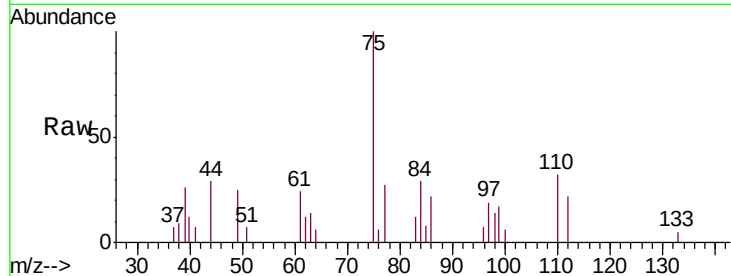
#59
1,2,3-Trichloropropane
Concen: 0.343 ug/L
RT: 10.48 min Scan# 2919
Delta R.T. 0.00 min
Lab File: VU035037.D
Acq: 10 Oct 2019 10:17

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tgt Ion: 75 Resp: 3124
Ion Ratio Lower Upper
75 100
77 30.8 26.5 39.7

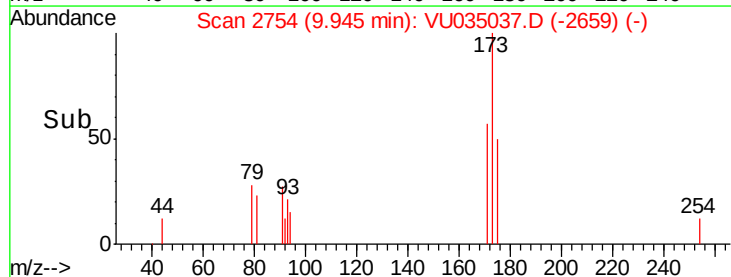
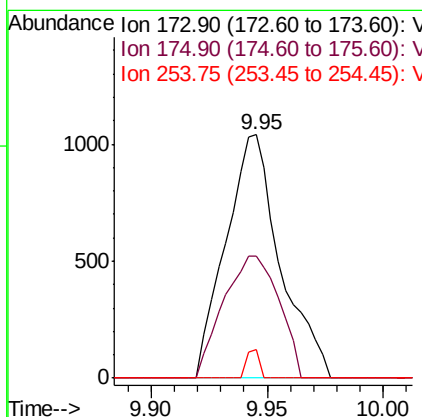
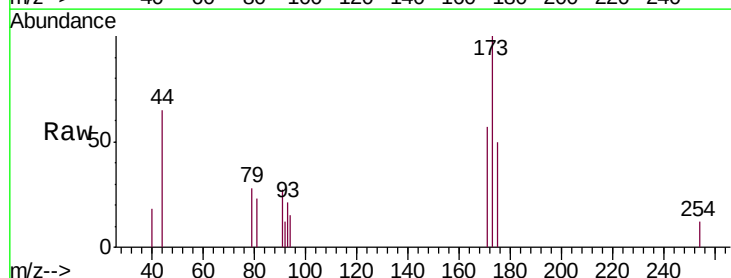
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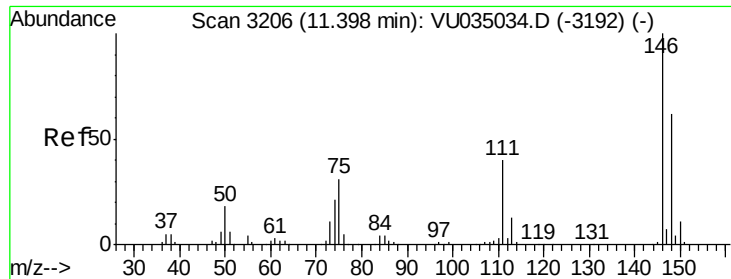
MMDadoda
10/11/2019 8:46:54 AM



#61
Bromoform
Concen: 0.333 ug/L
RT: 9.95 min Scan# 2754
Delta R.T. 0.01 min
Lab File: VU035037.D
Acq: 10 Oct 2019 10:17

Tgt Ion: 173 Resp: 1693
Ion Ratio Lower Upper
173 100
175 51.3 37.2 55.8
254 2.7 6.6 9.8#





#62

1,3-Dichlorobenzene

Concen: 0.342 ug/L

RT: 11.40 min Scan# 3208

Delta R.T. 0.01 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Instrument :

MSVOA_U

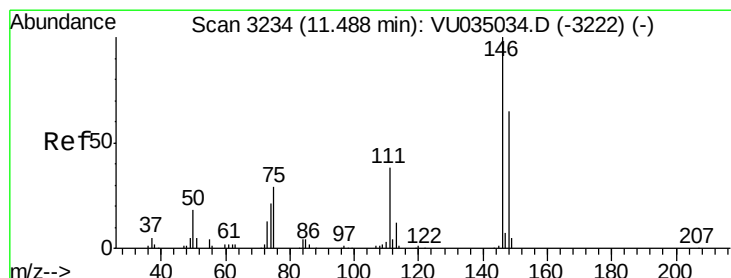
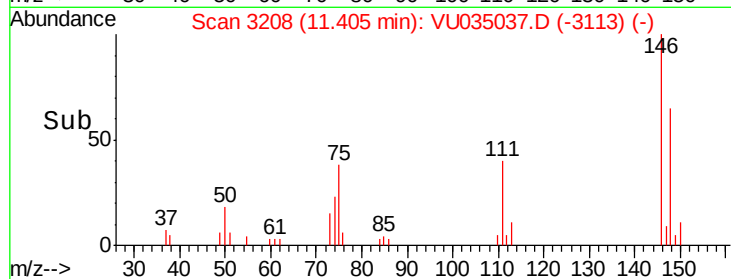
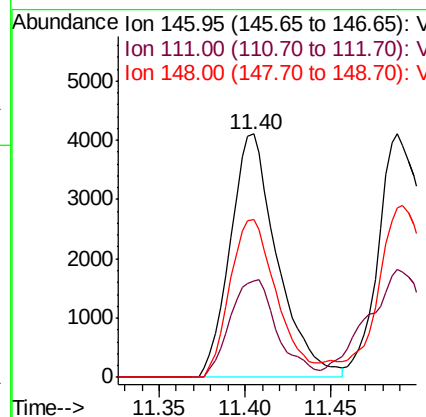
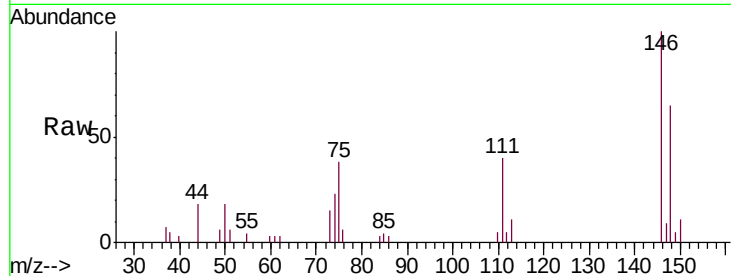
ClientSampled :

MDL02

Tgt Ion:	146	Resp:	7827
Ion Ratio	Lower	Upper	
146	100		
111	39.7	28.6	53.2
148	64.6	45.0	83.6

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#63

1,4-Dichlorobenzene

Concen: 0.369 ug/L

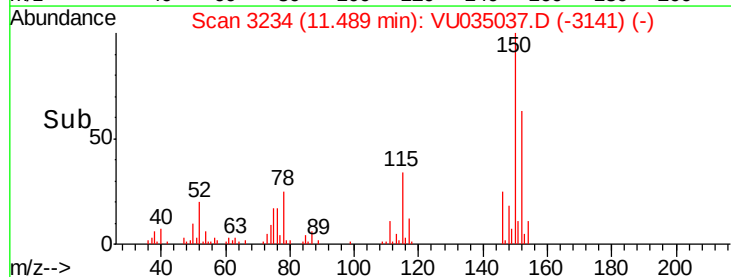
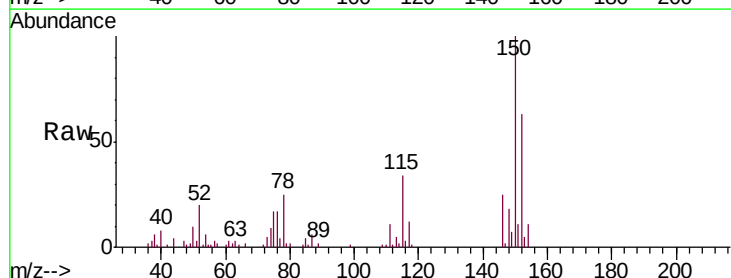
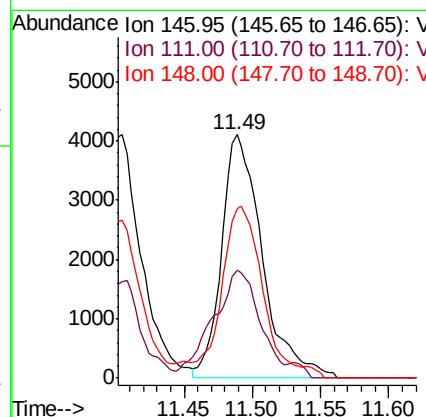
RT: 11.49 min Scan# 3234

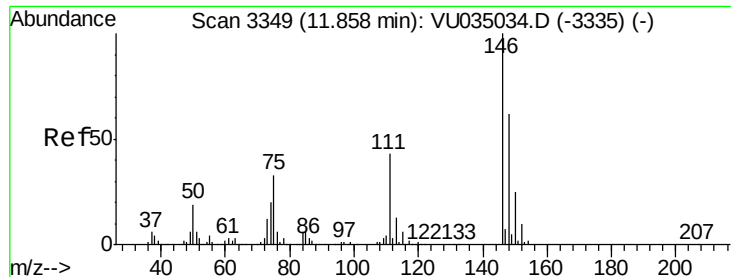
Delta R.T. 0.00 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Tgt Ion:	146	Resp:	8519
Ion Ratio	Lower	Upper	
146	100		
111	44.4	27.9	51.7
148	69.9	44.1	81.9





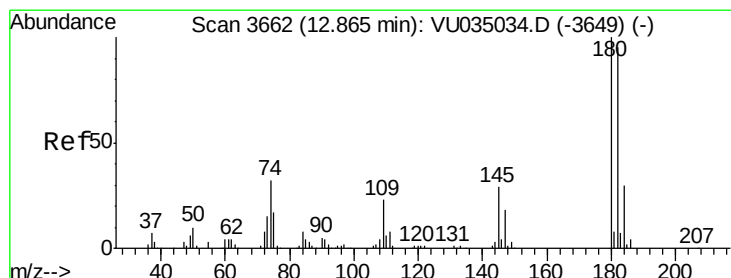
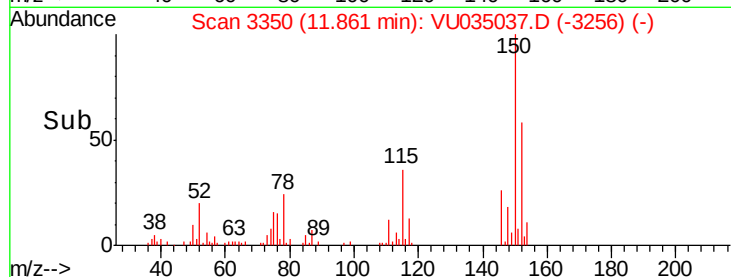
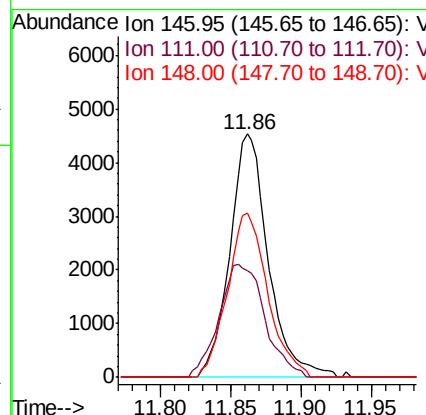
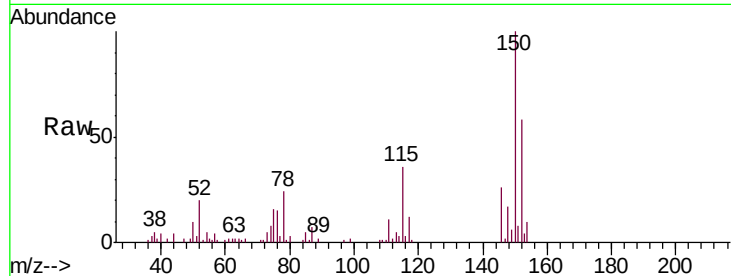
#65
 1,2-Dichlorobenzene
 Concen: 0.391 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU035037.D
 Acq: 10 Oct 2019 10:17

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.7	34.2	51.4
148	67.3	52.0	78.0

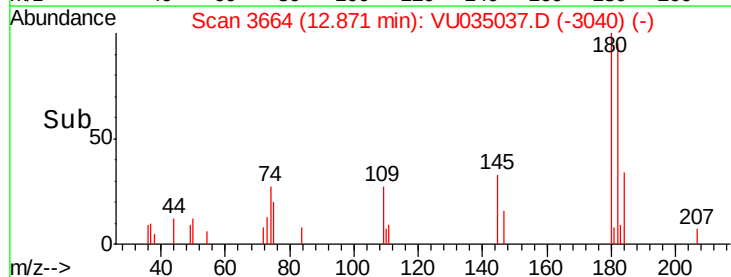
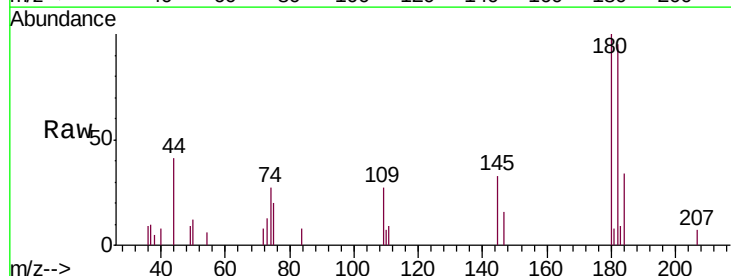
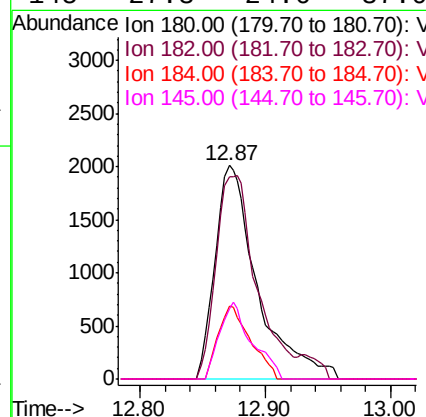
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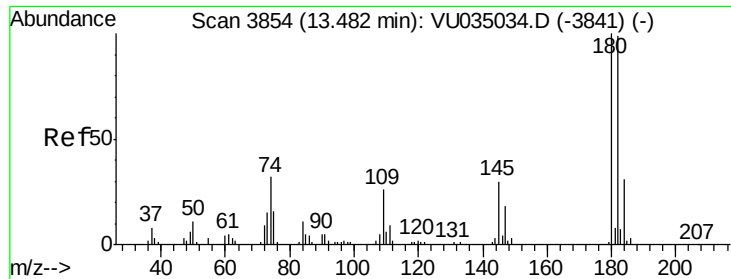
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#67
 1,3,5-Trichlorobenzene
 Concen: 0.305 ug/L
 RT: 12.87 min Scan# 3664
 Delta R.T. 0.01 min
 Lab File: VU035037.D
 Acq: 10 Oct 2019 10:17

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.6	76.0	114.0
184	26.1	24.2	36.2
145	27.3	24.6	37.0





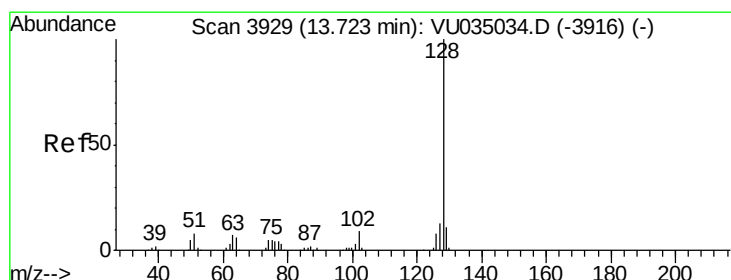
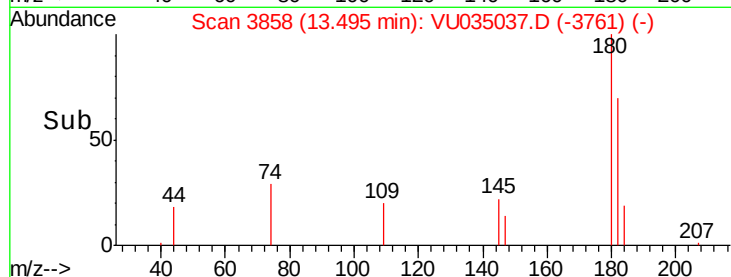
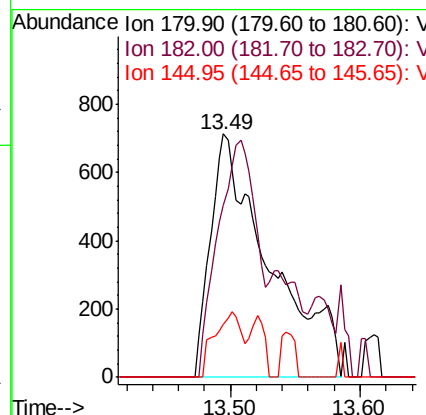
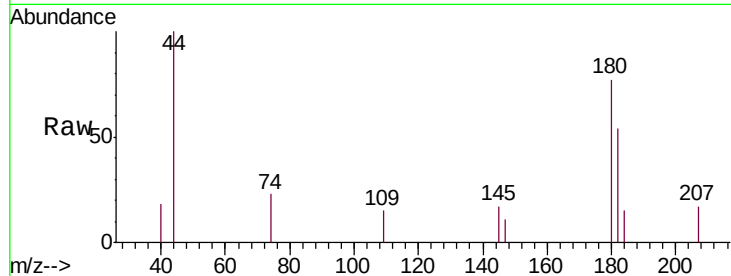
#68
 1,2,4-trichlorobenzene
 Concen: 0.195 ug/L m
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.01 min
 Lab File: VU035037.D
 Acq: 10 Oct 2019 10:17

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tgt Ion	Ratio	Lower	Upper
180	100		
182	63.0	77.3	115.9#
145	12.2	24.5	36.7#

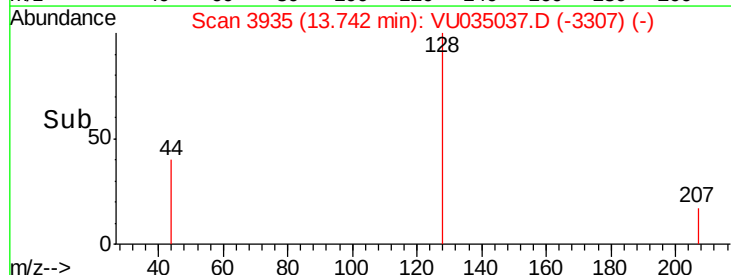
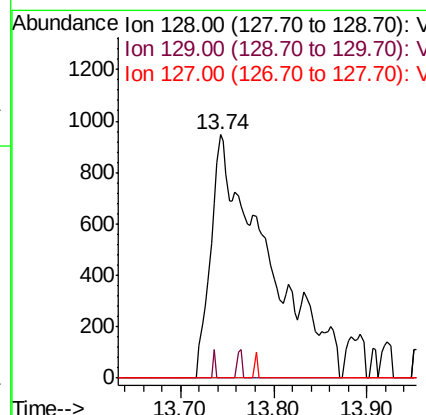
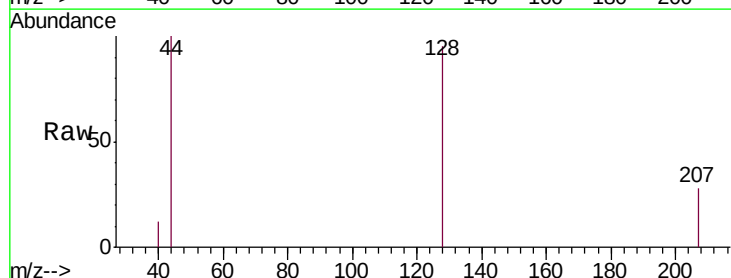
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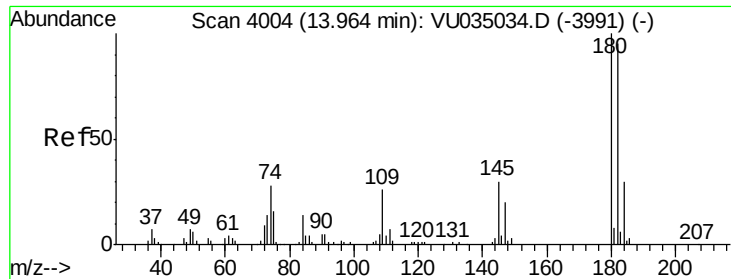
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#69
 Naphthalene
 Concen: 0.221 ug/L m
 RT: 13.74 min Scan# 3935
 Delta R.T. 0.02 min
 Lab File: VU035037.D
 Acq: 10 Oct 2019 10:17

Tgt Ion	Ratio	Lower	Upper
128	100		
129	0.6	8.7	13.1#
127	0.0	10.6	15.8#





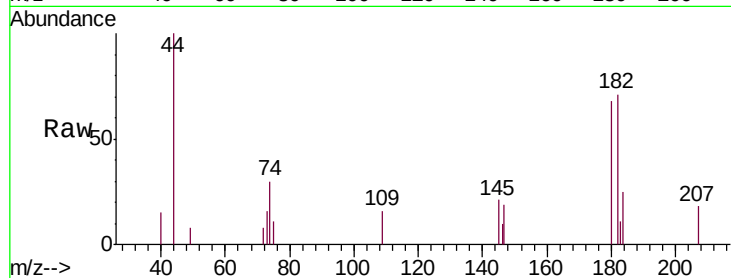
#70
 1,2,3-Trichlorobenzene
 Concen: 0.237 ug/L
 RT: 13.98 min Scan# 4008
 Delta R.T. 0.01 min
 Lab File: VU035037.D
 Acq: 10 Oct 2019 10:17

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tgt Ion	Ratio	Lower	Upper
180	100		
182	87.3	77.0	115.4
145	19.6	25.9	38.9

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Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

